Environment Canada Environnement Canada
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VOL ISS 2
WATER SURVEY OF CANADA. SEDIMENT DA
TA: CANADIAN RIVERS = DONNEES SUR L
ES SEDIMENTS: RIVIERES CANADIE

Sediment Data
Canadian Rivers

1981

Données sur les sédiments
Rivières canadiennes

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1983

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
OTTAWA, CANADA, 1983

Canada

ADDENDUM

Sediment Data – Canadian Rivers – 1981
Données sur les sédiments – Rivières canadiennes – 1981

The attached pages should replace pages 3-5, which give the 1981 data for Athabasca River below McMurray 07DA001.

Les pages ci-jointes viennent remplacer les pages 3 à 5, qui sont les données de 1981 pour la station 07DA001 sur la rivière Athabasca en aval de McMurray.

ATHABASCA RIVER AT MCMURRAY - STATION NO. 07CC002

SUSPENDED SEDIMENT FOR 1981

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1											511		1
2											430		2
3											368		3
4									19.0		340 S		4
5									19.0		450 S		5
6											568		6
7									17.0		599 S		7
8											533		8
9											427		9
10									18.0		308 S		10
11											236		11
12											196		12
13											164		13
14									20.0		131 S		14
15											102		15
16											87		16
17											82		17
18											77		18
19											73		19
20									18.0		70 S		20
21											70		21
22											80		22
23											84		23
24									18.0		84 S		24
25											80		25
26											72		26
27											65		27
28									21.0		56 S		28
29											51		29
30											46		30
31					18.0		528 S						31
TOTAL MEAN													TOTAL MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	23.0		45 S				190		18.0		56 S		1
2			48		22.0		171 S				58		2
3			43				174				60		3
4			42				185				54		4
5	22.0		41 S				199				49		5
6			47		21.0		218 S				43		6
7			54				216				38		7
8			59		23.0		200 S				42		8
9			60				176				49		9
10			61				147		19.0		39 S		10
11			65				118				25		11
12			68		21.0		89 S		17.0		26 S		12
13			71				70				25		13
14			73		22.0		63 S				22		14
15	23.0		78 S		22.0		55 S				18		15
16			75				50		17.0		15 S		16
17	25.0		67 S		22.0		45 S				16		17
18			64				45				16		18
19	24.0		61 S				45				16		19
20			62				47		15.0		15 S		20
21			68				53				15		21
22	23.0		76 S		22.0		58 S				16		22
23			86				64				17		23
24			98		22.0		80 S				17		24
25	20.0		127 S				86				20		25
26			189				82				26		26
27	21.0		255 S				74				31		27
28			291				67		18.0		21 S		28
29			293		18.0		58 S				12		29
30			266		16.0		53 S				10		30
31	22.0		225 S				55						31
TOTAL MEAN													TOTAL MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 599 ON JUN 07

TYPE OF GAUGE - MANUAL
LOCATION - LAT 56 44 00 N
LONG 111 22 30 W

NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - RECORDS PRIOR TO 1973 PUBLISHED UNDER 07DA001

ALBERTA

ATHABASCA RIVER AT MCMURRAY - STATION NO. 07CC002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000
JUN 05	19:03	1 810 H	19.0	506 K	11	16	20	24	38	50	66	87	99	100	BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

Environment Canada | Environnement Canada

Sediment Data
Canadian Rivers

1981

Données sur les sédiments
Rivières canadiennes

Metric Commission Canada has granted use of the National Symbol for Metric Conversion. The metric usage in this text has been reviewed by the Metric Screening Office of the Canadian General Standards Board.

La Commission du système métrique Canada a autorisé l'utilisation du symbole national de conversion au système métrique. Le Service du contrôle métrique de l'Office des normes générales du Canada a revisé l'utilisation du système métrique dans cette publication.

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1983

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
OTTAWA, CANADA, 1983

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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chiefs of the Water Resources Branch at Vancouver, British Columbia; Calgary, Alberta; Regina, Saskatchewan; Winnipeg, Manitoba; Guelph, Ontario and Dartmouth, Nova Scotia, and the Chief, N.W.T. Program, Yellowknife, Northwest Territories.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la compétence des chefs régionaux de la Direction des ressources en eau, à Vancouver (Colombie-Britannique), Calgary (Alberta), Regina (Saskatchewan), Winnipeg (Manitoba), Guelph (Ontario) et Dartmouth (Nouvelle-Écosse), et du Chef des programmes des T.N.-O., Yellowknife (T.N.-O.).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

TABLE OF CONTENTS

	PAGE
Preface	iii
Introduction	iv
Scope of this Publication	v
Organization and History of Sediment Surveys in Canada	vi
Co-operation and Acknowledgments	vi
Publication of Surface Water and Sediment Data	vii
Definition of Terms	viii
Definition of Symbols	ix
Collection and Processing of Basic Data	ix
Equipment and Instrumentation	ix
Hydrometric Surveys	x
Sediment Sampling Program	x
Total Sediment Discharge	xii
Sediment Survey Laboratories	xii
Accuracy of Field Data and Computed Results	xiii
Method of Tabulation of Runoff and Sediment Data	xiv
Revisions	xvi
Metric Conversion	xvi
Microfiche	xvi
Conversion Factors	xvii
Tabulation of Data	
Alberta	1
British Columbia	72
Manitoba	115
New Brunswick	167
Newfoundland	173
Northwest Territories	179
Nova Scotia	185
Ontario	193
Prince Edward Island	234
Saskatchewan	242
Station Number Index	249
Alphabetical Index	251

TABLE DES MATIÈRES

	PAGE
Préface	iii
Introduction	iv
Portée de la présente publication	v
Organisation et historique des études des sédiments au Canada	vi
Coopération et remerciements	vi
Publication des données sur les eaux de surface et les sédiments	vii
Définitions des termes	viii
Définitions des symboles	ix
Cueillette et traitement des données de base	ix
Matériel	ix
Relevés hydrométriques	x
Échantillonnage des sédiments des cours d'eau	x
Débit total des sédiments	xii
Laboratoires d'analyse	xii
Exactitude des données et des résultats	xiii
Présentation sous forme de tableaux des données sur le ruissellement et les sédiments	xiv
Révisions	xvi
Conversion au système métrique	xvi
Microfiche	xvi
Facteurs de conversion	xvii
Mise en tableaux des données	
Alberta	1
Colombie-Britannique	72
Manitoba	115
Nouveau-Brunswick	167
Terre-Neuve	173
Territoires du Nord-Ouest	179
Nouvelle-Écosse	185
Ontario	193
Île du Prince-Édouard	234
Saskatchewan	242
Index numérique des stations	249
Index alphabétique	251

INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1981 calendar year, the results of the sediment survey investigations in Canada.

Information on the quantity and character of stream-transported sediment provided by the sediment survey investigations is intended for use as a basis for studies of deformation of river channels, erosion and deposition, and in the planning and design of water resource projects.

General introductory information on the sediment survey is included in this Publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les résultats des études des sédiments dans les cours d'eau du Canada pour l'année civile 1981.

Les données d'ordre quantitatif et qualitatif devraient servir de fondement aux études de la déformation des lits des cours d'eau, de l'érosion et de la sédimentation ainsi qu'à la planification et à la conception de projets qui touchent aux ressources en eau.

La présente publication contient également des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications courantes qui ont trait aux eaux de surface.

Details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to one of the following:

Regional Chief,
Water Resources Branch,
Department of the Environment,
502–1001 West Pender Street,
Vancouver, British Columbia.
V6E 2M9
(604 666–3606)

Regional Chief,
Water Resources Branch,
Department of the Environment,
Bag 2909,
Postal Station 'M',
(Room 854,
220–4th Avenue S.E.),
Calgary, Alberta.
T2P 2M7
(403 231–5301)

Regional Chief,
Water Resources Branch,
Department of the Environment,
G.M.C. Building,
1102–8th Avenue,
Regina, Saskatchewan.
S4R 1C9
(306 569–5340)

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2
(204 949–2434)

Regional Chief,
Water Resources Branch,
Department of the Environment,
Federal Building,
75 Farquhar Street,
Guelph, Ontario.
N1H 3N4
(519 821–0110)

Regional Chief,
Water Resources Branch,
Department of the Environment,
5th Floor, Queens Square,
45 Alderney Drive,
Dartmouth, Nova Scotia.
B2Y 2N6
(902 426–5776)

Chief, N.W.T. Programs,
Inland Waters Directorate,
Department of the Environment,
P.O. Box 2970,
Yellowknife, N.W.T.
X1A 2R2
(403 920–8500)

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7 (819 997–1508).

En s'adressant aux endroits ci-après, on peut obtenir des renseignements supplémentaires sur certaines stations particulières et divers relevés, ainsi que des données récentes non encore publiées.

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
502–1001, rue Pender ouest
Vancouver (C.–B.)
V6E 2M9
(604 666–3606)

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Sac postal 2909
Succursale postale 'M'
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220, Quatrième avenue S.–E.)
Calgary (Alberta)
T2P 2M7
(403 231–5301)

Chef régional
Direction des ressources en eau
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(204 949–2434)

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice fédéral
75, rue Farquhar
Guelph (Ontario)
N1H 3N4
(519 821–0110)

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice Queens Square,
5e étage
45, prom. Alderney
Dartmouth, (Nouvelle–Écosse)
B2Y 2N6
(902 426–5776)

Chef des programmes des
T.N.–O.
Direction générale des eaux
intérieures
Ministère de l'Environnement
C.P. 2970
Yellowknife (T.N.–O.)
X1A 2R2
(403 920–8500)

ou Directeur, Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7 (819 997–1508).

SCOPE OF THIS PUBLICATION

This paper contains data on streamflow, daily suspended sediment discharges, daily mean suspended sediment concentration, particle-size distribution of suspended sediment, particle-size distribution of bed load, particle-size distribution of bed material, and water temperature for the Calendar year 1981. More detailed information regarding individual stations and related records, or recent data which have not yet been published, may be obtained upon application to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario.

PORTÉE DE LA PRÉSENTE PUBLICATION

La présente publication contient des données sur les débits des cours d'eau, sur les débits quotidiens des sédiments en suspension, sur la concentration moyenne quotidienne des sédiments en suspension, sur la granulométrie des sédiments en suspension, du charriage de fond et des matériaux de fond et sur la température de l'eau pour l'année civile 1981. Pour plus amples renseignements sur les stations et les données qui y sont recueillies ou sur des données qu'on n'a pas encore publiées, prière de s'adresser au Directeur des ressources en eau, ministère de l'Environnement, Ottawa (Ontario).

ORGANIZATION AND HISTORY OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the urgent needs of Federal and Provincial construction agencies for assessment of particular projects. While the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

1. Collection and publication of long-term basic sediment records on streams throughout Canada to provide data for:
   (a) Design and operation of reservoirs.
   (b) Design of canals, diversion works and drainage ditches.
   (c) Prediction, evaluation and control of deposition of natural channels.
   (d) Evaluation of erosion control measures.
   (e) Design of treatment facilities for water supply.
   (f) Improvement of fish habitat.

2. Determination of the relationship between sediment transport and various aspects of hydrology and geomorphology, particularly the relationship between sediment and erosion.

3. To increase the availability of sediment survey data to complement the hydrometric survey program in all parts of Canada and the standardization and improvement of equipment and techniques.

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other Federal and Provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the Sediment Data Reference Index.

ORGANISATION ET HISTORIQUE DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins urgents exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets de construction donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts des études sont de:

1. réunir et publier des données de base à long terme sur les sédiments dans les cours d'eau canadiens permettant:
   (a) la conception et la mise en oeuvre de réservoirs;
   (b) la conception de canaux, d'ouvrages de dérivation et de fossés de drainage;
   (c) la prédiction, l'évaluation et la réduction de la sédimentation dans les cours d'eau naturels;
   (d) l'évaluation des mesures de lutte contre l'érosion;
   (e) la conception d'installations de traitement pour l'approvisionnement en eau;
   (f) l'amélioration de l'habitat des poissons.

2. établir un rapport entre le transport des sédiments et divers facteurs hydrologiques et géomorphologiques, plus particulièrement avec l'érosion.

3. accroître la disponibilité de données sur les sédiments, à l'appui des relevés hydrométriques exécutés dans tous les coins du pays, et normaliser et améliorer le matériel et les techniques.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées lors de la prise des relevés sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

A program for the collection and publication of surface water and sediment data has been carried on for a number of years. Data for the 1964 water year and earlier years were published in the Water Resources Paper series. Subsequent data are being published in a new format adopted for published data of the Water Resources Branch.

To facilitate uniform publication of surface water data, Canada was divided into four main drainages, and a separate Water Resources Paper was published for each drainage. Each paper containing surface water data was identified by a specific number, the name of the drainage and the year(s) in which the data were collected. Commencing with the 1979 publications, data are presented in the International System of Units (SI).

The new format which has now been adopted represents a departure from the Water Resources Paper series. In the new format, Canada is divided into eight regions. The provinces each represent a separate region except for the Atlantic Provinces which together form one region, and the Yukon and Northwest Territories which make up another. In the new series, the publication will be identified by the province(s) or territories covered and the year in which the data were collected.

The publications containing sediment data are being published in the new format but in a single publication for all of Canada, as heretofore.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961 at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually, the same as for the Surface Water Data publications but in one volume. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI) and will continue to be published on an annual basis.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new biennial publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI) and future editions will be published every five years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

La cueillette et la publication des données sur les eaux de surface et les sédiments sont en oeuvre depuis un certain nombre d'années. On a publié, dans la série intitulée *Water Resources Papers*, les données pour l'année hydrologique 1964 et des années précédentes. Par la suite, on les a publiées selon une nouvelle présentation adoptée pour les données de la Division des ressources en eau.

Pour des raisons d'uniformité, le Canada était divisé en quatre principaux bassins versants, auxquels une publication de la série était consacrée. Toute publication était identifiée par un numéro, le nom du bassin et l'année (les années) de cueillette des données. À partir de 1979, les données sont fournies dans le Système international d'unités (SI).

La nouvelle formule tranche sur l'ancienne: le Canada est divisé en huit régions dont six correspondent aux provinces, une regroupe les provinces de l'Atlantique et une autre les Territoires du Nord-Ouest et le Yukon. Les publications sont maintenant identifiées par le nom des provinces ou des territoires et par l'année de la cueillette des données.

Les données sur les sédiments sont également publiées d'après la nouvelle formule, mais elles sont contenues dans une seule publication, comme par le passé.

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement, comme c'est le cas pour les données sur les eaux de surface, mais dans un seul tome. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et la publication va paraître chaque année.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications paraissant tous les deux ans et intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les cinq ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

DEFINITIONS OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed load discharge is the weight of bed load passing a cross-section of a stream per unit of time.

Bed material is the sediment mixture of which the streambed is composed.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross-section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Individual sampling vertical is a selected permanent vertical in a cross-section in which individual suspended sediment samples are collected. Individual samples usually consist of a single sample taken on any one day. Two bottles of water-sediment mixture make up each sample.

Instantaneous suspended sediment sample is a sample taken instantaneously at a fixed point in a river cross-section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of sediment particles in a sediment sample.

Point-integrated sediment sample is a suspended sediment sample taken over a relatively short period of time at a fixed point in a river cross-section.

Sediment is fragmental material transported by, suspended in or deposited by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. This ratio is expressed herein as "milligrams per litre" (mg/L).

DÉFINITIONS DES TERMES

Les définitions suivantes sont fournies afin d'éclaircir les termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): un mélange isolé de sédiments et d'eau prélevé au moyen d'une pompe en un point précis d'un cours d'eau.

Charriage de fond (Bed load): matières déplacées, roulées ou poussées sur le fond sous l'action de l'eau, mais qui restent en contact presque permanent avec le fond.

Débit charrié (Bed load discharge): poids de matériaux de charriage de fond traversant une section transversale d'un cours d'eau par unité de temps.

Matériaux de fond (Bed material): mélange de sédiments composant le lit d'un cours d'eau.

Échantillon intégré en fonction de la profondeur des sédiments en suspension (Depth-integrated sediment sample): échantillon prélevé à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante en un point précis d'une section transversale d'un cours d'eau; il représente un échantillon moyen des sédiments répartis de la surface de l'eau à environ neuf centimètres au-dessus du fond.

Verticale d'échantillonnage isolé (Individual sampling vertical): ligne verticale permanente, en un point précis d'une section transversale, où généralement un échantillon est prélevé chaque jour à l'aide de deux bouteilles.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): échantillon prélevé à un moment donné en un point précis d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): débit des sédiments en suspension calculé d'après le débit d'un cours d'eau et la concentration des sédiments déterminée par un échantillonnage intégré en fonction de la profondeur.

Analyse granulométrique (Particle-size analysis): procédé consistant à déterminer la répartition de la dimension des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré des sédiments en suspension (Point-integrated sediment sample): échantillon prélevé au cours d'une période de temps relativement brève en un point précis d'une section transversale d'un cours d'eau.

Sédiments (Sediment): matières fragmentaires transportées, déposées ou en suspension dans un cours d'eau.

Carte hydrographique des sédiments (Sediment hydrograph): graphique représentant la variation de la concentration ou du débit des sédiments en suspension en fonction du temps.

Sédiments en suspension (Suspended sediment): matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): rapport entre le poids de matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Le rapport s'exprime dans la présente publication en «milligrammes par litre» (mg/L).

Suspended sediment discharge is the quantity of suspended sediment transported through a cross-section per unit of time.

Suspended sediment sample is a quantity of water-sediment mixture representing the average concentration or the average particle-size distribution of suspended sediment.

The median or *median diameter* is the mid-point in the size distribution of a sample in which one-half the weight is composed of particles larger in diameter than the median and the other half, composed of particles smaller in diameter than the median.

Total sediment discharge or *total sediment load* is the sum of the suspended sediment discharge and the bed load discharge.

Unmeasured sediment discharge or *unmeasured sediment load* is the difference between total sediment discharge and measured suspended sediment discharge.

DEFINITION OF SYMBOLS

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates estimated data. It indicates that the values between collected sediment samples of a peak period, are estimated by some indirect method such as interpolation, extrapolation, from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

S – Sample(s) collected this day – indicates that a depth-integrated or point-integrated measurement, automatic or individual sample(s) was collected this day.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross-sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain of these cross-sections are located at traffic bridges while others are equipped with cableways, catamaran installations or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.
(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.
(c) Depth-integrating suspended sediment sampler, USD-49, used on a reel suspension for medium and large streams whose depths are less than six metres.

Débit des sédiments en suspension (Suspended sediment discharge): quantité de sédiments en suspension traversant une section transversale d'un cours d'eau par unité de temps.

Échantillon de sédiments en suspension (Suspended sediment sample): mélange de sédiments et d'eau représentatif de la granulométrie ou de la concentration moyennes de sédiments en suspension.

Médiane ou *diamètre médian* (The median or median diameter): valeur centrale de la distribution granulométrique des éléments d'un échantillon exprimée d'après le diamètre, en deçà de laquelle se trouve la moitié de la taille de l'échantillon et au-delà de laquelle se trouve l'autre moitié.

Débit total des sédiments ou *charge totale des sédiments* (Total sediment discharge or total sediment load): somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments ou *charge totale non mesurée des sédiments* (Unmeasured sediment discharge or unmeasured sediment load): différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DÉFINITIONS DES SYMBOLES

A – Turbidisonde simple – indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – Glaces – indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – Estimative – indique des données estimatives, c'est-à-dire que les valeurs fournies entre les prélèvements d'échantillons d'une période de débit de pointe, sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

S – Échantillon(s) prélevé(s) en ce jour – indique qu'on a prélevé un échantillon, intégré selon la profondeur ou ponctuel, automatiquement ou de façon isolée pour la journée en question.

CUEILLETTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines des sections sont situées sous un pont, d'autres sont accessibles par téléphérique, par catamarans ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) l'échantillonneur intégré vertical simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;
(b) l'échantillonneur intégré vertical, USDH-59, utilisé comme câble porteur dans les cours d'eau petits et moyens;
(c) l'échantillonneur intégré vertical, USD-49, fixé au bout d'une corde s'enroulant autour d'un moulinet et employé dans les cours d'eau gros ou moyens dont la profondeur est inférieure à six mètres;

(d) Depth-integrating suspended sediment sampler, USD-74, used on a reel suspension for medium and large streams whose depths are greater than six metres.
(e) Point-integrating suspended sediment samplers, USP-61 and USP-63, used for point-integrating sampling, or depth-integrating sampling if the depth is over six metres, or in a cross-section with a very high velocity.
(f) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.
(g) Bed material sampler, USBM-54, used on large or deep streams or on those with hard-packed streambeds.
(h) Bed material sampler USBMH-53 used on some small or shallow streams.
(i) Lane bed material sampler, a drag-type sampler used on small streams or for those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for daily observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment discharge measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment discharge by the depth-integrating method (EDI) for determining the average suspended sediment concentration in the cross-section.
(b) Individual suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment discharge measurements are not taken.
(c) Limited measurement of suspended sediment discharge by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross-section.
(d) Periodic sampling of bed material in the cross-section for determining the average particle-size distribution in the cross-section for the computation of sediment transport.
(e) Periodic measurement of bed load discharge.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Discharge by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the amount of suspended sediment load carried in the entire cross-section of a stream and to determine the average suspended sediment concentration in the cross-section, or to determine both the suspended sediment load and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the surface of the water in the stream to the streambed and to vary from side to side.

(d) l'échantillonneur intégré vertical, USD-74, fixé au bout d'une corde s'enroulant autour d'un moulinet et employé dans les cours d'eau gros ou moyens dont la profondeur est supérieure à six mètres;
(e) les échantillonneurs intégrés, ponctuels ou verticaux, USP-61 et USP-63, utilisés dans les cours d'eau d'une profondeur supérieure à six mètres, ou dans les sections transversales qui connaissent un débit très élevé;
(f) l'échantillonneur automatique sous pression employé dans un réseau de pompage automatique et permettant le prélèvement et la mise en bouteille, sans surveillance, d'échantillons isolés d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;
(g) l'échantillonneur de sédiments USBM-54 utilisé dans les cours d'eau importants ou profonds, ou ceux dont le fond est dur;
(h) l'échantillonneur de sédiments USBMH-53 employé dans les cours d'eau petits ou peu profonds; et
(i) la drague employée dans les petits cours d'eau ou dans ceux dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation quotidienne de la hauteur des eaux, la mesure du débit, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. La mesure du débit d'un cours d'eau et du débit des sédiments se font conjointement selon les normes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) la mesure périodique du débit des sédiments en suspension avec intégration selon la profondeur (méthode IDE), afin de déterminer leur concentration moyenne dans une section transversale d'un cours d'eau;
(b) le prélèvement d'échantillons isolés des sédiments en suspension selon une verticale choisie, afin de déterminer la concentration des sédiments qui correspond aux journées où le débit des sédiments en suspension n'est pas mesuré;
(c) un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;
(d) l'échantillonnage périodique des sédiments dans une section transversale, afin de déterminer la granulométrie des particules dans une section transversale d'un cours d'eau en vue du calcul des sédiments;
(e) la mesure périodique du débit charrié.

Voici une brève explication des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer la quantité de sédiments en suspension traversant toute une section transversale d'un cours d'eau et d'y déterminer la concentration moyenne des sédiments en suspension, ou de déterminer tant la charge que la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente avec la profondeur et qu'elle varie d'une rive à l'autre d'un cours d'eau.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross-section is divided into at least five equal-flow portions and a representative suspended sediment sample is collected from each portion. For each part of the cross-section, the suspended sediment discharge (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment discharge (R) for the whole cross-section, may be computed by adding the sediment discharges for the five equal-flow portions:

$$R = r\ n = q_1 c_1 + q_2 c_2 + \ldots + q_n c_n$$

The depth-integrating method of sampling is used to simplify the measurement of the suspended sediment discharge. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

In addition to the above mentioned method, the suspended sediment discharge at some stations are measured by the (ETR) equal-transit-rate method. By this method, sediment samples are collected by traversing a depth-integrating sampler vertically at a uniform rate at 20 or more selected verticals in a cross-section of the stream, the samples are then combined for analysis. The suspended sediment discharge through the cross-section is determined by multiplying the sediment concentration of the combined sample by the total water discharge.

(b) *Individual Suspended Sediment Samples at a Selected Vertical*: Individual suspended sediment samples are collected routinely with depth-integrating samplers at a permanently fixed vertical in the cross-section during periods with average or high sediment concentration. In the periods with very heavy sediment concentration, two or three sediment samples may be taken per day, while in the periods with low concentration, one sediment sample may be taken every few days. In the winter period when the suspended sediment concentration is usually very low one sample per week or one every two weeks may be collected.

(c) *Suspended Sediment Discharge by Point-Integrating Method*: A limited number of sediment discharge measurements are made by the point-integrating method. These measurements are included in the program, (a) to check by comparison the "measured" sediment discharges obtained by the depth-integrating method with the full suspended sediment discharges by point-integrating method, and, (b) to obtain samples from which to determine particle-size distribution at different points in the cross-section. The point-integrating sediment discharges are computed by graphical methods.

The relationship between the suspended sediment concentration of the individual samples and the average concentration in the cross-section determined from the suspended sediment discharge is established for most stations. Using this relationship, the sediment concentrations of the individual samples are adjusted to reflect the average suspended sediment concentration in the cross-section. These average sediment concentrations in the cross-sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a card punch.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches égales, ou le débit est constant, et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R), pour toute une section transversale, est obtenu en faisant la somme des débits des sédiments des cinq tranches égales, où le débit est constant:

$$R = r\ n = q_1 c_1 + q_2 c_2 + \ldots + q_n c_n$$

La méthode par intégration selon la profondeur est employée pour simplifier la mesure du débit des sédiments en suspension. L'échantillonneur se remplit à un taux proportionnel au débit du milieu où il se trouve et, en étant déplacé selon toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de cette dernière.

Dans certaines stations, on mesure en outre le débit des sédiments en suspension par la méthode ETR (*Equal-Transit-Rate Method*). Les prélèvements se font à l'aide d'un appareil intégrateur selon la profondeur, à une vitesse uniforme, à 20 verticales et plus d'une section transversale d'un cours d'eau et les échantillons obtenus sont réunis pour l'analyse. Le débit des sédiments en suspension pour une section transversale est calculé en multipliant la concentration des sédiments des échantillons réunis par le débit global d'un cours d'eau.

(b) *Prélèvements d'échantillons isolés des sédiments en suspension selon une verticale choisie*: Les prélèvements se font régulièrement à l'aide d'appareils intégrateurs selon la profondeur, en un point permanent précis d'une section transversale, au cours des périodes où la concentration des sédiments est moyenne ou élevée. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon tous les quelques jours peut avoir lieu lorsqu'elle est faible. En hiver, saison où la concentration des sédiments en suspension est ordinairement très faible, un échantillon par semaine ou toutes les deux semaines est suffisant.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: La méthode se limite à un petit nombre de mesures; on y a recours, car elle permet (a) de vérifier les valeurs du débit des sédiments mesuré grâce à la méthode précédente et (b) d'obtenir des échantillons qui permettent l'analyse granulométrique des sédiments en divers points d'une section transversale. Dans cette méthode, les débits des sédiments sont calculés à l'aide de graphiques.

Le rapport entre la concentration des sédiments en suspension dans les échantillons isolés et la concentration moyenne des sédiments dans une section transversale, telle que déterminée à partir du débit des sédiments en suspension, est établi pour la plupart des stations. Il sert à amener les échantillons isolés des concentrations des sédiments à refléter la concentration moyenne des sédiments en suspension dans une section transversale. Le graphique de la concentration moyenne des sédiments en suspension dans une section transversale est obtenu en traçant une courbe qui passe à travers des points déterminés. Ce graphique représente la concentration moyenne des sédiments en suspension pour la période d'enregistrement. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un perforateur de cartes.

The daily suspended sediment loads are computed on the basis of stream discharges and the adjusted suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration, in milligrams per litre (mg/L), by the daily mean discharge, in cubic metres per second (m^3/s), and the appropriate conversion factor, normally 0.0864.

(d) *Periodic Sampling of Bed Material*: In a cross-section, bed material samples and suspended sediment samples usually are taken in the same verticals. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross-section. The total number of bed material samples taken in a cross-section usually varies between five and nine.

(e) *Bed Load Discharge*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross-section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Discharge*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) evaporation method and (2) filtration method, and determination of dissolved solids by evaporation method.

(b) particle-size distribution analysis by (1) bottom withdrawal method, (2) pipet method, (3) visual accumulation tube method, (4) sieving and (5) hydrometer.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

For purposes of this publication, particle-size analysis was carried out for all bed material samples; however, most of the suspended sediment samples with concentrations below 300 mg/L were not analysed for particle-size distribution. Determination of sand sizes and analysis of sediment coarser than 0.062 mm generally were made by sieve analysis, in some cases when samples have particle sizes between 0.062 mm and 1.000 mm they could be analysed by the visual accumulation tube method. Depending upon the amount

Les valeurs quotidiennes du débit des sédiments en suspension sont calculées à partir du débit d'un cours d'eau et des concentrations corrigées des sédiments en suspension. Exprimées en tonnes par jour, elles représentent le produit de la concentration moyenne quotidienne des sédiments, en milligrammes par litre (mg/L), par le débit moyen quotidien, en mètre cubes par seconde (m^3/s), et par un facteur de conversion approprié, ordinairement 0.0864.

(d) *Échantillonnage périodique des matériaux de fond*: Dans une section transversale, les échantillons des sédiments en suspension et des sédiments sont ordinairement prélevés à la même verticale. Souvent, des échantillons supplémentaires des sédiments sont pris près des rives, au niveau d'eau extrême ou à d'autres points d'une section transversale. Leur nombre total pour une section transversale donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du débit charrié*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.) dont le choix se fondera sur la nature du régime d'un cours d'eau.

4. *Débit total des sédiments*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) évaporation et (2) filtration, et la détermination des matières dissoutes par évaporation.

(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par la méthode à la pipette, (3) par observation visuelle de l'accumulation des sédiments dans un tube, (4) par l'emploi de tamis et (5) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à soustraire des résultats la concentration des matières dissoutes. La quantité est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Aux fins de la présente publication, on a effectué l'analyse granulométrique pour tous les échantillons des matériaux de fond; toutefois, la plupart des échantillons de sédiments en suspension de concentration inférieure à 300 mg/L n'ont pas fait l'objet d'une telle analyse. On a généralement déterminé la taille des grains de sable et analysé les matériaux de taille supérieure à 0.062 mm à l'aide de tamis; dans certains cas, on pourrait analyser, par observation visuelle de l'accumulation, les échantillons dont la taille des

of sediment, the samples with particle sizes smaller than 0.062 mm were analysed by the bottom withdrawal tube, the pipet, or the hydrometer methods. Distilled water or mixed native and distilled waters were used as the settling medium. In some instances, chemical dispersing agents were added to the settling medium.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.00024 – 0.004
Silt	0.004 – 0.062
Sand	0.062 – 2.0
Gravel	2.0 – 64.0

The particle size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data referred to herein, is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross-section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbols A, B, E and S.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

particules est comprise entre 0.062 et 1.000 mm. D'après leur concentration, on a analysé les échantillons dont la taille des particules était inférieure à 0.062 mm, soit par observation visuelle de leur accumulation, par la méthode à la pipette ou à l'aide d'un hydromètre. On a employé de l'eau distillée ou un mélange d'eau naturelle et distillée comme milieu de décantation et, dans certains cas, on a ajouté des agents dispersants chimiques.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.00024 – 0.004
Limon	0.004 – 0.062
Sable	0.062 – 2.0
Gravier	2.0 – 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique et analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments utilisées dans la présente étude dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sediments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée par l'examen de la fréquence d'utilisation des symboles A, B, E et S.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours à crues très rapides.

METHOD OF TABULATION OF RUNOFF AND SEDIMENT SURVEY DATA

For gauging stations where a systematic record of streamflow and sediment discharge was obtained, the following data are given where available:

1. Table of daily suspended sediment yield.
2. Summary of monthly and annual data.
3. Descriptive information.
4. Table of particle-size analysis of suspended sediment.
5. Table of particle-size analysis of bed load.
6. Table of particle-size analysis of bed material.

1. *The Table of Daily Suspended Sediment Yield* includes the daily discharge in cubic metres per second, the daily mean concentration in milligrams per litre, the daily suspended sediment yield in tonnes per day, water temperatures in degrees Celsius observed in the cross-section during flow measurements or during the suspended sediment sampling.

2. *A Summary of Monthly and Annual Data* is given following the table of daily data.

For stations where only concentrations are obtained no monthly or annual data are given.

For stations where sediment yield in tonnes per day are produced for partial years only, no annual data are given.

For stations where sediment yield in tonnes per day are produced, for complete years or standard periods, both the monthly and annual summary are given.

The monthly summary gives:

(a) the total of the daily discharge values for complete months;
(b) the mean discharge in cubic metres per second;
(c) the total of the daily sediment yield values in tonnes per day for complete months;
(d) the mean sediment yield in tonnes per day.

The summary for the year or period gives:

(a) the total suspended sediment load in tonnes;
(b) the mean suspended sediment concentration in milligrams per litre, and computed as total suspended sediment load ÷ total streamflow;
(c) the maximum and minimum daily concentration in milligrams per litre;
(d) the mean suspended sediment load in tonnes per day;
(e) the maximum and minimum daily load in tonnes per day.

3. The descriptive information about the gauging station is also given below the table of daily data and will indicate the following where applicable:

PRÉSENTATION SOUS FORME DE TABLEAUX DES DONNÉES SUR LE RUISSELLEMENT ET LES SÉDIMENTS

Pour les stations de jaugeage où on a effectué un relevé systématique du débit d'un cours d'eau et des sédiments, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. le tableau du débit quotidien des sédiments en suspension;
2. un extrait des données mensuelles et annuelles;
3. des renseignements descriptifs;
4. le tableau de la granulométrie des sédiments en suspension;
5. le tableau de la granulométrie du charriage de fond; et
6. le tableau de la granulométrie des matériaux de fond.

1. *Le tableau du débit quotidien des sédiments en suspension* (The Table of Daily Suspended Sediment Yield) donne le débit quotidien, en mètres cubes par seconde, la concentration quotidienne moyenne, en milligrammes par litre, le débit quotidien des sédiments en suspension, en tonnes par jour, la température de l'eau, en degrés Celsius, dans une section transversale au moment de la mesure du débit ou de l'échantillonnage des sédiments en suspension.

2. *Un extrait des données mensuelles et annuelles* (A Summary of Monthly and Annual Data) est donné au-dessous du tableau des données quotidiennes.

Aucune donnée mensuelle ou annuelle n'est fournie pour les stations où on ne mesure que la concentration.

Aucune donnée annuelle n'est fournie pour les stations où on ne mesure que le débit des sédiments en tonnes par jour pendant une partie de l'année.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on a mesuré le débit des sédiments en tonnes par jour pour l'année entière ou des périodes bien définies.

L'extrait mensuel donne:

(a) le total des valeurs quotidiennes du débit, pour le mois entier;
(b) le débit moyen en mètres cubes par seconde;
(c) le total des valeurs quotidiennes du débit des sédiments, exprimées en tonnes par jour, pour le mois entier;
(d) le débit moyen des sédiments en tonnes par jour.

L'extrait annuel ou périodique donne:

(a) le débit total des sédiments en suspension, en tonnes;
(b) la concentration moyenne des sédiments en suspension, en mg/L, calculée en divisant le débit total des sédiments en suspension par le débit total du cours d'eau;
(c) les concentrations quotidiennes maximale et minimale, en mg/L;
(d) le débit moyen des sédiments en suspension, en tonnes par jour;
(e) les débits quotidiens maximal et minimal, en tonnes par jour.

3. Des renseignements descriptifs sur les stations de jaugeage sont également présentés sous le tableau des données quotidiennes et apportent les précisions qui suivent.

International Gauging Stations – on waters adjacent to the international boundary, certain gauging stations have been designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

Drainage Area – this is the latest available drainage area and refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

Natural Flow or *Regulated Flow* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

4. *The Table of Particle-size Analysis of Suspended Sediment* is available for Depth and Point Integrating samples and gives the particle-size distribution, in per cent finer in millimetres, of the sampled suspended sediment in the cross-section.

5. *The Table of Particle-size Analysis of Bed Load* gives the average particle-size distribution, in per cent finer in millimetres, of the sampled bed load in the cross-section.

6. *The Table of Particle-size Analysis of Bed Material* gives the average particle-size distribution, in per cent finer in millimetres, of the sampled bed material in the cross-section.

Stations internationales de jaugeage (International Gauging Stations) – Dans des eaux contiguës aux frontières, on a désigné certaines stations comme «internationales», et les données prélevées sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publication et les *United States Water Supply Papers* proviennent de variantes dans les techniques de traitement automatique des données.

Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau et le débit d'un cours d'eau.

(a) Manuelle (Manual) – indique qu'un appareil non enregistreur sert à obtenir une fois par jour les données sur le niveau et le débit d'un cours d'eau.

(b) Enregistreuse (Recording) – indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux tracé sur une carte analogique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à un endroit éloigné de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

Superficie du bassin versant (Drainage Area) – Il s'agit de la superficié du bassin versant déterminée d'après les cartes les plus récentes et désigne la zone délimitée par une ligne de partage des eaux de sorte que l'écoulement d'averse est entrainé par gravité vers le cours d'eau en amont de la station.

Débit naturel ou *régularisé* (Natural Flow or Regulated Flow) – Un débit reconnu comme naturel est indiqué comme tel. Le débit de plusieurs réseaux hydrographiques est modifié par une régularisation qui est effectuée en amont. Il arrive parfois que l'importance de cette régularisation ne soit pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique ainsi que l'année où elle a débuté (si elle est connue).

Données fournies (Contributed Data) – Nom de l'organisme extérieur qui a fourni toutes les données ou une partie des données.

Remarques (Remarks) – Renseignements sur le prélèvement des échantillons de sédiments.

4. *Le tableau de la granulométrie des sédiments en suspension* (The Table of Particle-Size Analysis of Suspended Sediment) dans une section transversale a été dressé pour les échantillons intégrés et ponctuels et donne le pourcentage des particules, dont la taille est inférieure à la taille indiquée en millimètres.

5. *Le tableau de la granulométrie du charriage de fond* (The Table of Particle-Size Analysis of Bed Load) donne le pourcentage moyen des particules de charriage de fond dans une section transversale, particules dont la taille est inférieure à la taille indiquée en millimètres.

6. *Le tableau de la granulométrie des matériaux de fond* (The Table of Particle-Size Analysis of Bed Material) dans une section transversale donne le pourcentage moyen des particules sédimentaires dont la taille est inférieure à la taille indiquée en millimètres.

REVISIONS

A number of corrections or revisions have been made to previously published streamflow and suspended sediment discharge data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data.

Revisions to daily discharges are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

METRIC CONVERSION

In January 1980, all discharge, water level and sediment data on magnetic tape in the Water Survey of Canada data banks were converted to the International System of Units (SI). All requests for data and publications are now supplied in metric units only. The first documents to be published under the system are the Surface Water Data Reference Index (1979), Surface Water Data Series (1979), Historical Streamflow and Water Levels Summaries (to 1979), Sediment Data for Canadian Rivers (1978), Sediment Data Reference Index (1978), and Historical Sediment Data Summary (to 1978).

Daily discharge and water level data for years prior to 1979 and daily sediment data prior to 1978 in metric units are available on magnetic tape, but not in published form.

MICROFICHE

The historical daily discharge, water level and sediment data which were converted to metric units in January 1980 are also available to users on microfiche cards, upon request. The data are stored in station number order by Region (Vancouver, Calgary, Regina, Winnipeg, Guelph, Dartmouth and Montreal) and therefore data for a particular province may include fiche from two or more Regions. There are 270 frames or printouts per microfiche at 48X reduction; there is also a visible heading showing the fiche number, type of data, Region, the beginning and ending station number and year of data and the month/year that the fiche was created; the last frame is an index of the contents of that fiche.

Daily discharge and water level data for 1979 and subsequent years, and daily sediment data for 1978 and subsequent years are available annually on microfiche. These data are also stored in station number order by Region.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées sur le débit de cours d'eau et de sédiments en suspension. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit.

Les corrections apportées aux débits quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

CONVERSION AU SYSTÈME MÉTRIQUE

En janvier 1980, toutes les données de l'écoulement, des niveaux d'eau et des sédiments sur ruban magnétique stockées dans les banques de données de la Division des relevés hydrologiques du Canada ont été converties au Système international d'unités (SI). Toutes les demandes de données et de publications sont maintenant remplies selon les unités métriques seulement. Les premiers documents à être publiés selon le système métrique sont l'*Index de référence des données sur les eaux de surface (1979)*, la série des *Données sur les eaux de surface (1979)*, les *Sommaires chronologiques de l'écoulement et des niveaux d'eau (jusqu'à 1979)*, les *Données sur les sédiments des rivières canadiennes (1978)*, l'*Index de référence des données sur les sédiments (1978)* et le *Sommaire chronologique des données sur les sédiments (jusqu'à 1978)*.

Les données du débit quotidien et des niveaux d'eau pour les années antérieures à 1979 et les données quotidiennes des sédiments avant 1978 en unités métriques sont disponibles sur ruban magnétique, mais ne sont pas publiées.

MICROFICHE

En janvier 1980, les données chronologiques concernant les débits quotidiens, les niveaux d'eau et les sédiments ont été converties en unités métriques. Elles sont également disponibles sur microfiche aux usagers qui en font la demande. Ces données sont emmagasinées par ordre de numéro de station et par région (Vancouver, Calgary, Regina, Winnipeg, Guelph, Dartmouth et Montréal). Les données relatives à une province en particulier peuvent donc inclure des fiches en provenance de deux régions ou plus. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la région, le numéro de la première et de la dernière station, celui de la première et de la dernière année de cueillette, et le mois et l'année de préparation de la fiche. La dernière image donne l'index du contenu de la fiche.

Les données sur les débits quotidiens et les niveaux d'eau recueillies à partir de 1979 ainsi que les données quotidiennes sur les sédiments dès 1978 sont disponibles sur microfiche chaque année. Ces données sont également emmagasinées par ordre de numéro de station et par région.

CONVERSION FACTORS

The following list of convenient equivalents of measure gives the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 5280 feet
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 640 acres

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 0.160 54 cubic foot
1 imperial gallon equals 4.546 09 L (litres)
1 U.S. gallon equals 0.133 68 cubic foot
1 imperial gallon equals 1.2010 U.S. gallons

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit – 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

FACTEURS DE CONVERSION

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 5280 pieds
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre équivaut à 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 640 acres

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial équivaut à 0.160 54 pied cube
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon américain équivaut à 0.133 68 pied cube
1 gallon impérial équivaut à 1.2010 gallon américain

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit – 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

ALBERTA

ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07DD001

SUSPENDED SEDIMENT FOR 1981

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1						455 E	252	9 910	18.0	1 270	128 S	14 000	1
2						460 E	251	9 980		1 270 E	133	14 600	2
3						448 E	242	9 370	18.0	1 250 E	159 S	17 200	3
4					9.0	438 E	233 S	8 820		1 180 E	190	19 400	4
5						430 E	246	9 140	18.0	1 180 E	174 S	17 700	5
6					9.0	420 E	234 S	8 490		1 240 E	167	17 900	6
7						408 E	161	5 680	17.0	1 380 E	171 S	20 400	7
8					10.0	420 E	83 S	3 010		1 480 E	178	22 800	8
9						415 E	88	3 160	17.0	1 500 E	209 S	27 100	9
10					10.0	415 E	88 S	3 160		1 480 E	240	30 700	10
11						440 E	85	3 230	17.0	1 430	204 S	25 200	11
12					11.0	490 E	81 S	3 430		1 350	205	23 900	12
13						530 E	85	3 890	17.0	1 270	197 S	21 600	13
14					10.0	580 E	96 S	4 810		1 200	154	16 000	14
15						650 E	88	4 940	17.0	1 140	118 S	11 600	15
16					12.0	680 E	68 S	4 000		1 080	99	9 240	16
17						695 E	85	5 100	16.0	1 020	92 S	8 110	17
18					14.0	680 E	130 S	7 640		996	93	8 000	18
19						630 E	139	7 570	16.0	997	103 S	8 870	19
20					14.0	610 E	120 S	6 320		1 010	89	7 770	20
21						604 E	99	5 170	17.0	1 010	69 S	6 020	21
22					15.0	608 E	89 S	4 680		1 020	62	5 460	22
23						615 E	83	4 410	18.0	1 050	71 S	6 440	23
24					16.0	628 E	75 S	4 070		1 070	77	7 120	24
25						655 E	63	3 570	18.0	1 080	69 S	6 440	25
26					17.0	710 E	71 S	4 360		1 060	51	4 670	26
27						820 E	99	7 010	18.0	1 030	50 S	4 450	27
28					18.0	914	136 S	10 700		1 010	49	4 280	28
29						1 080	137	12 800	18.0	997	50 S	4 310	29
30					18.0	1 230	125 S	13 300		971	51	4 280	30
31						1 260	121	13 200					31
TOTAL						19 418		204 920		35 021		395 560	TOTAL
MEAN						626		6 610		1 170		13 200	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0	931	52 S	4 180		1 250	132	14 300	15.0	607	102 S	5 350	1
2		893	47	3 630	21.0	1 190	141 S	14 500		606	109	5 710	2
3	18.0	866	45 S	3 370		1 130	143	14 000	15.0	619	101 S	5 400	3
4		850	42	3 080	22.0	1 150	138 S	13 700		633	86	4 700	4
5	18.0	854	44 S	3 250		1 220	132	13 900	13.0	635	71 S	3 900	5
6		875 E	40	3 020	22.0	1 280	144 S	15 900		618	56	2 990	6
7	18.0	860 E	46 S	3 420		1 270	156	17 100	14.0	602	47 S	2 440	7
8		845 E	47	3 430	23.0	1 210	139 S	14 500		598	44	2 270	8
9	19.0	860 E	57 S	4 240		1 140	136	13 400	16.0	577	49 S	2 440	9
10		870 E	55	4 130	23.0	1 070	138 S	12 800		560	56	2 710	10
11	19.0	900 E	60 S	4 670		1 000	122	10 500	15.0	557	61 S	2 940	11
12		963 E	58	4 810	21.0	943	104 S	8 470		549	64	3 040	12
13	20.0	1 010 E	60 S	5 240		892	87	6 700	13.0	534	69 S	3 180	13
14		1 040 E	62	5 570	20.0	851	76 S	5 590		530	71	3 250	14
15	20.0	1 030 E	61 S	5 430		821	110	7 800	13.0	523	70 S	3 160	15
16		960 E	58	4 810	21.0	807	161 S	11 200		507	63	2 760	16
17	21.0	780 E	59 S	3 980		792	142	9 720	14.0	498	57 S	2 450	17
18		755 E	58	3 780	21.0	776	110 S	7 380		503	62	2 690	18
19	22.0	765 E	59 S	3 900		761	123	8 090	14.0	515	72 S	3 200	19
20		824	53	3 770	21.0	759	127 S	8 330		503	60	2 610	20
21	22.0	826	45 S	3 210		762	80	5 270	12.0	484	41 S	1 710	21
22		858	41	3 040	20.0	757	50 S	3 270		468	49	1 980	22
23	21.0	940	51 S	4 140		740	47	3 000	12.0	456	73 S	2 880	23
24		994	61	5 240	20.0	722	46 S	2 870		440	80	3 040	24
25	20.0	978	45 S	3 800		715	52	3 210		425	77	2 830	25
26		971	36	3 020	20.0	700	57 S	3 450		438	74	2 800	26
27	20.0	1 040	53 S	4 760		684	56	3 310		460	76	3 020	27
28		1 180	97	9 890	18.0	676	53 S	3 100		477	75	3 090	28
29	21.0	1 280	137 S	15 200		671	50	2 900		496	67	2 870	29
30		1 300	149	16 700	16.0	656	57 S	3 230		479	57	2 360	30
31	21.0	1 280	132 S	14 600		630	83	4 520					31
TOTAL		29 375		165 310		28 025		266 010		15 897		93 770	TOTAL
MEAN		948		5 330		904		8 580		530		3 130	MEAN

ALBERTA

ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07DD001

SUSPENDED SEDIMENT FOR 1981

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		452											1
2		433											2
3		419											3
4		410 E											4
5		400 E											5
6		395 E											6
7		388 E											7
8		381 E											8
9		385 E											9
10		390 E											10
11		397 E											11
12		400 E											12
13		393 E											13
14		388 E											14
15		385 E											15
16		380 E											16
17		375 E											17
18		373 E											18
19		371 E											19
20		369 E											20
21		365 E											21
22		360 E											22
23		355 E											23
24		350 B											24
25		347 B											25
26		344 B											26
27		340 B											27
28		336 B											28
29		332 B											29
30		328 B											30
31		325 B											31
TOTAL		11 666											TOTAL
MEAN		376											MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 12 18 N
LONG 111 23 28 W
DRAINAGE AREA 155 000 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

ATHABASCA RIVER BELOW MCMURRAY - STATION NO. 07DA001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		183 B				209 B				193 B			1
2		178 B				211 B				194 B			2
3		178 B				213 B				194 B			3
4		178 B				214 B				195 B			4
5		181 B				214 B				196 B			5
6		186 B				210 B				196 B			6
7		199 B				202 B				196 B			7
8		211 B				198 B				194 B			8
9		215 B				198 B				197 B			9
10		215 B				198 B				200 B			10
11		206 B				197 B				198 B			11
12		199 B				194 B				197 B			12
13		196 B				190 B				197 B			13
14		193 B				184 B				201 B			14
15		193 B				180 B				204 B			15
16		194 B				178 B				203 B			16
17		198 B				175 B				205 B			17
18		197 B				173 B				203 B			18
19		199 B				173 B				203 B			19
20		200 B				173 B				208 B			20
21		200 B				172 B				218 B			21
22		199 B				173 B				226 B			22
23		198 B				173 B				229 B			23
24		198 B				176 B				229 B			24
25		199 B				180 B				230 B			25
26		198 B				184 B				242 B			26
27		198 B				188 B				264 B			27
28		197 B				191 B				287 B			28
29		197 B								303 B			29
30		201 B								308 B			30
31		206 B								315 B			31
TOTAL		6 086				5 321				6 825			TOTAL
MEAN		196				190				220			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		323 B				595 E				1 330	511	58 700	1
2		327 B				595 E				1 240	430	46 100	2
3		343 B				590 E				1 120	368	35 600	3
4		357 B				585 E			19.0	1 140	340 S	33 500	4
5		397 B				580 E			19.0	1 410	450 S	54 800	5
6		444 B				575 E				1 370	568	67 200	6
7		489 B				570 E			17.0	1 380	599 S	71 400	7
8		526 B				570 E				1 380	533	63 600	8
9		590 B				565 E				1 290	427	47 600	9
10		620 B				570 E			18.0	1 190	308 S	31 700	10
11		630 B				580 E				1 090	236	22 200	11
12		620 B				590 E				1 020	196	17 300	12
13		625 B				600 E				958	164	13 600	13
14		635 B				610 E			20.0	894	131 S	10 100	14
15		600 B				630 E				841	102	7 410	15
16		545 B				660 E				821	87	6 170	16
17		420 B				685 E				830	82	5 880	17
18		460 B				725 E				846	77	5 630	18
19		470 B				740 E				843	73	5 320	19
20		480 B				750 E			18.0	847	70 S	5 120	20
21		485 B				760 E				874	70	5 290	21
22		490 B				765 E				893	80	6 170	22
23		490 B				765 E				902	84	6 550	23
24		485 B				770 E			18.0	879	84 S	6 380	24
25		490 E				780 E				850	80	5 880	25
26		505 E				812 A				832	72	5 180	26
27		530 E				994				825 E	65	4 630	27
28		575 E			1	170			21.0	810 E	56 S	3 920	28
29		590 E			1	170 A				800 E	51	3 530	29
30		595 E			1	160				785 E	46	3 120	30
31					18.0	1 230	528 S	56 100					31
TOTAL		15 136				22 741				30 290		659 580	TOTAL
MEAN		505				734				1 010		22 000	MEAN

ALBERTA

ATHABASCA RIVER BELOW MCMURRAY - STATION NO. 07DA001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	23.0	765 E	45 S	2 970		1 070	190	17 600	14.0	574	56 S	2 780	1
2		750 E	44	2 850	22.0	1 070	171 S	15 800		587	58	2 940	2
3		765 E	43	2 840		1 180	174	17 700		586	60	3 040	3
4		780 E	42	2 830		1 240	185	19 800		567	54	2 650	4
5	22.0	780 E	41 S	2 760		1 260	199	21 700		554	49	2 350	5
6		775 E	47	3 150	21.0	1 180	214 S	21 800		550	43	2 040	6
7		775 E	54	3 620		1 100	216	20 500		521	38	1 710	7
8		785 E	59	4 000	23.0	1 020	200 S	17 600		511	42	1 850	8
9		790 E	60	4 100		941	176	14 300		515	49	2 180	9
10		800 E	61	4 220		884	147	11 200	19.0	507	39 S	1 710	10
11		815 E	65	4 580		840	118	8 560		494	25	1 070	11
12		825 E	68	4 850	21.0	798	89 S	6 140	17.0	492	26 S	1 110	12
13		830 E	71	5 090		767	70	4 640		486	25	1 050	13
14		820 E	73	5 170	22.0	753	63 S	4 100		473	22	899	14
15	23.0	810 E	78 S	5 460	22.0	741	55 S	3 520		464	18	722	15
16		795 E	75	5 150		725	50	3 130	17.0	473	15 S	613	16
17	25.0	785 E	67 S	4 540	22.0	710	45 S	2 760		484	16	669	17
18		770 E	64	4 260		709	45	2 760		466	16	644	18
19	24.0	795 E	61 S	4 190		715	45	2 780		448	16	619	19
20		820 E	62	4 390		703	47	2 850	15.0	437	15 S	566	20
21		850 E	68	4 990		685	53	3 140		427	15	553	21
22	23.0	870 E	76 S	5 710	22.0	667	58 S	3 340		410	16	567	22
23		823 A	86	6 120		661	64	3 660		398	17	585	23
24		876	98	7 420	22.0	649	80 S	4 490		416	17	611	24
25	20.0	946	127 S	10 400		632	86	4 700		436	20	753	25
26		1 100	189	18 000		626	82	4 440		448	26	1 010	26
27	21.0	1 230	255 S	27 100		628	74	4 020		471	31	1 260	27
28		1 260	291	31 700		613	67	3 550	18.0	446	21 S	809	28
29		1 240	293	31 400	18.0	584	58 S	2 930		419	12	434	29
30		1 220	266	28 000	16.0	566	53 S	2 590		404	10	349	30
31	22.0	1 140	225 S	22 200		563	55	2 680					31
TOTAL		27 385		274 060		25 280		258 780		14 464		38 143	TOTAL
MEAN		883		8 840		815		8 350		482		1 270	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		393				310 B				130 B			1
2		379				315 B				120 B			2
3		369				320 B				120 B			3
4		365				320 B				125 B			4
5		359				315 B				125 B			5
6		353				315 B				130 B			6
7		349				310 B				120 B			7
8		349				310 B				115 B			8
9		355				335 B				110 B			9
10		361				350 B				108 B			10
11		363				360 B				105 B			11
12		355				360 B				105 B			12
13		353				350 B				105 B			13
14		350				337 B				100 B			14
15		344				293 B				100 B			15
16		346				283 B				96.0 B			16
17		343				280 B				94.0 B			17
18		341				296 B				92.0 B			18
19		345				285 B				94.0 B			19
20		339				288 B				95.0 B			20
21		336				259 B				97.0 B			21
22		330				235 B				98.0 B			22
23		331				231 B				100 B			23
24		325				217 B				100 B			24
25		320 B				209 B				104 B			25
26		315 B				190 B				105 B			26
27		310 B				175 B				106 B			27
28		305 B				165 B				108 B			28
29		300 B				150 B				108 B			29
30		300 B				140 B				106 B			30
31		305 B								105 B			31
TOTAL		10 588				8 303				3 326.0			TOTAL
MEAN		342				277				107			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 599 ON JUN 07

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 71 400 ON JUN 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 46 50 N
LONG 111 24 00 W
DRAINAGE AREA 133 000 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - RECORDS AFTER 1972 PUBLISHED UNDER 07CC002

ATHABASCA RIVER BELOW MCMURRAY - STATION NO. 07DA001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 05	19:03	1 410 H	19.0	506 K	11	16	20	24	38	50	66	87	99	100		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ALBERTA

BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05PE004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	FEB TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	MAR TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1		2.58 B				1.87 B				1.59 B			1
2		2.53 B				1.90 B				1.65 B			2
3		2.38 B				1.91 B				1.70 B			3
4		2.38 B				1.94 B				1.75 B			4
5		2.31 B				1.96 B				1.86 B			5
6		2.07 B				1.95 B				2.18 B			6
7		1.97 B				1.88 B				2.45 B			7
8		1.86 B				1.85 B				3.18 B			8
9		1.77 B				1.77 B				3.76 B			9
10		1.77 B				1.72 B				4.95 B			10
11		1.85 B				1.68 B				9.43 B			11
12		1.88 B				1.57 B				7.77 B			12
13		1.89 B				1.44 B				5.75 B			13
14		1.88 B				1.37 B				4.48 B			14
15		1.81 B				1.30 B				3.85 B			15
16		1.75 B				1.25 B				3.70 B			16
17		1.71 B				1.24 B				4.36 B			17
18		1.72 B				1.23 B				6.43 B			18
19		1.75 B				1.25 B				9.42 B			19
20		1.76 B				1.31 B				13.3 B			20
21		1.75 B				1.36 B				13.2 B			21
22		1.72 B				1.40 B				11.9 B			22
23		1.72 B				1.45 B				11.6 B			23
24		1.72 B				1.47 B				11.7 B			24
25		1.72 B				1.49 B				11.5 B			25
26		1.70 B				1.51 B				10.7 B			26
27		1.69 B				1.55 B				11.8 B			27
28		1.67 B				1.58 B				15.0 B			28
29		1.67 B								20.1 B			29
30		1.72 B								23.2 B			30
31		1.83 B								22.8 B			31
TOTAL		58.53				48.20				257.06			TOTAL
MEAN		1.89				1.58				8.29			MEAN

DAY	APR TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	MAY TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	JUN TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1		23.8 B	244 E	502		12.5	65	70.2		8.12			1
2		25.0 B	278 E	600		12.2	65	68.5		8.02			2
3		27.5 B	305 E	725		11.9	64	65.8		8.11			3
4		30.0 B	320 E	829		11.7	62	62.7		8.63			4
5		33.9 B	330 E	967		11.2	61	59.0		8.83			5
6		29.1 A	328 E	825	12.0	10.8	59 S	55.1		9.10			6
7		27.3 A	306 E	722		10.6	57	52.2		9.18			7
8	4.0	27.0 A	292 S	681		10.0	54	46.7		8.58			8
9		27.0 A	307	716		9.61	52	43.2		8.01			9
10		27.0	306	714		9.37	50	40.5		7.74			10
11		26.4	288	657		9.33	48	38.7		7.78			11
12		25.8	257	573		9.20	47	37.4		7.39			12
13		25.4	226	496		8.65	44	32.9		7.20			13
14		24.4	211	445		8.29	40	28.7		7.03			14
15	6.0	23.3	195 S	393		8.04	38	26.4		6.74			15
16		22.4	187	362		7.87	37	25.2		6.70			16
17		21.6	177	330		7.74	36	24.1		6.84			17
18		20.9	160	289		7.60	35	23.0		6.75			18
19		20.4	140	247		7.48	33	21.3		6.59			19
20		19.6	126	213		7.34	31	19.7		6.54			20
21		18.7	107	173	19.0	7.22	30 S	18.7		6.60			21
22		17.5	92	139		7.12	29	17.8		6.46			22
23	11.0	17.0	81 S	119		6.91	27	16.1		6.06			23
24		16.3	78	110		6.81	26	15.3	19.0	5.76	11 S	5.47	24
25		15.8	76	104		6.89	25	14.9		5.51			25
26		14.9	73	94.0		6.99	24	14.5		5.29			26
27		14.0	70	84.7		7.53	23	15.0		5.08			27
28		13.7	69	81.7		7.79	23	15.5		4.84			28
29		13.6	69	81.1		8.26	22	15.7		4.69			29
30		12.9	67	74.7		8.17	22	15.5		4.59			30
31						8.65	21	15.7					31
TOTAL		662.2		12 347.2		273.76		1 016.0		208.76			TOTAL
MEAN		22.1		412		8.83		32.8		6.96			MEAN

BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05FE004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4.31				2.56				14.3			1
2		4.11				2.45				14.8			2
3		3.90				2.90				14.9			3
4		3.89				2.79				14.7			4
5		3.82				2.93				14.5			5
6		3.64				3.03				14.7			6
7		3.58				2.92				14.7			7
8		3.57				2.76				14.5			8
9		3.61				2.59				13.8			9
10		3.59				2.43				13.2			10
11		3.49				2.34				12.8			11
12		3.53				2.34				11.9			12
13		3.42				2.30				11.2			13
14		3.21				2.29				10.7			14
15		3.13				3.13				10.2			15
16		3.11				3.53				9.76			16
17		3.14				3.52				9.29			17
18		3.05				3.70				8.93			18
19		2.98				4.86				8.50			19
20		2.82				4.46				8.02			20
21		2.77				5.00				7.70			21
22		2.69				5.86				7.40			22
23		2.59				7.31			12.0	6.97	29 S	17.5	23
24		2.63				8.65				6.65			24
25		2.71			24.0	9.69	20 S	16.7		6.30			25
26		2.72				10.6				6.29			26
27		2.63				11.6				6.34			27
28		2.40				12.4				6.06			28
29	20.0	2.34	7 S	1.42		13.1				6.22			29
30		2.50				13.6				6.16			30
31		2.62				13.9							31
TOTAL		98.50				171.54				311.49			TOTAL
MEAN		3.18				5.53				10.4			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		5.93				4.76				3.15 B			1
2		5.78				4.80				3.28 B			2
3		5.51				4.79				3.16 B			3
4		5.30			2.0	4.58 A	26 S	10.3		3.23 B			4
5		5.17				4.60 A				2.79 B			5
6		5.15				4.57 B				2.83 B			6
7		5.03				4.45 B				3.00 B			7
8		4.89				4.35 B				2.95 B			8
9		4.78				4.25 B				2.98 B			9
10		4.80				4.15 B				2.89 B			10
11		4.71				4.25 B				2.69 B			11
12		4.71				4.20 B				2.45 B			12
13		4.69				4.13 B				2.60 B			13
14		4.66				3.66 B				2.61 B			14
15		4.67				3.57 B				2.44 B			15
16		4.68				3.68 B				2.31 B			16
17		4.85				3.69 B				2.29 B			17
18		4.81				3.53 B				2.19 B			18
19		4.80				3.63 B				2.09 B			19
20		4.87				3.29 B				2.07 B			20
21		4.79				3.91 B				2.06 B			21
22		5.00 B				3.60 B				2.04 B			22
23		5.10 B				3.36 B				2.06 B			23
24		5.20 B				3.32 B				2.04 B			24
25		5.25 B				3.38 B				1.90 B			25
26		5.30 B				3.31 B				1.76 B			26
27		5.30 B				3.07 B				1.68 B			27
28		5.25 B				3.18 B				1.60 B			28
29		5.20 B				3.16 B				1.53 B			29
30		5.35				3.12 B				1.56 B			30
31		5.05								1.51 B			31
TOTAL		156.58				116.34				73.70			TOTAL
MEAN		5.05				3.88				2.38			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 51 23 N
LONG 110 01 06 W
DRAINAGE AREA 24 000 km^2
REGULATED FLOW SINCE 1973

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05PE004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 15	12:20	23.3 H	6.0	194 K	26	36	55	74	81	84	88	94	98	100		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

CABIN CREEK NEAR SEEBE - STATION NO. 05BF019

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.007				0.005				0.004			1
2		0.007				0.005				0.003			2
3		0.007				0.005				0.003			3
4		0.007				0.005				0.004			4
5		0.006				0.005				0.004			5
6		0.006				0.005				0.004			6
7		0.006				0.005				0.004			7
8		0.006				0.005				0.004			8
9		0.006				0.005				0.004			9
10		0.006				0.005				0.004			10
11		0.006				0.005				0.004			11
12		0.006				0.004				0.004			12
13		0.005				0.003				0.004			13
14		0.005				0.005				0.004			14
15		0.005				0.005				0.004			15
16		0.005				0.005				0.004			16
17		0.005				0.005				0.004			17
18		0.005				0.005				0.004			18
19		0.005				0.005				0.004			19
20		0.005				0.005				0.004			20
21		0.005				0.005				0.004			21
22		0.005				0.005				0.004			22
23		0.005				0.005				0.004			23
24		0.005				0.005				0.004			24
25		0.005				0.005				0.004			25
26		0.005				0.005				0.004			26
27		0.005				0.005				0.004			27
28		0.005				0.004				0.004			28
29		0.005								0.004			29
30		0.005								0.004			30
31		0.005								0.004			31
TOTAL		0.171				0.136				0.122			TOTAL
MEAN		0.005				0.005				0.004			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.004				0.051	5	0.02	2.8	0.165	30 S	0.43	1
2		0.004				0.034	5	0.01		0.214	25	0.46	2
3		0.004				0.028	5	0.01	4.0	0.229	10 S	0.20	3
4		0.004				0.025	5	0.01		0.202	5	0.09	4
5		0.004				0.037	5	0.02		0.174	4	0.06	5
6		0.004				0.060	6	0.03		0.158	3	0.04	6
7		0.004				0.019	6	0.01		0.138	2	0.02	7
8		0.004				0.019	6	0.01		0.126	2	0.02	8
9		0.005				0.021	6	0.01	3.8	0.114	2 S	0.02	9
10		0.005				0.022	6	0.01		0.103	2	0.02	10
11		0.005				0.021	6	0.01		0.095	1	0.01	11
12		0.005				0.021	6	0.01		0.089	1	0.01	12
13		0.005				0.024	6	0.01		0.139	8	0.10	13
14		0.005				0.033	6	0.02		0.171	10	0.15	14
15		0.006				0.044	6	0.02		0.178	9	0.14	15
16		0.006				0.034	7	0.02	3.5	0.183	5 S	0.08	16
17		0.006			2.0	0.037	7	0.02		0.170	5	0.07	17
18		0.007				0.065	7	0.04		0.154	4	0.05	18
19		0.008			1.0	0.099	13 S	0.11		0.141	4	0.05	19
20		0.010			2.0	0.114	9 S	0.09		0.132	3	0.03	20
21		0.013				0.271	19	0.44		0.120	3	0.03	21
22		0.013			2.0	0.240	17 S	0.35		0.109	2	0.02	22
23		0.018				0.227	12	0.24	4.0	0.099	2 S	0.02	23
24		0.023				0.230	12	0.24		0.088	3	0.02	24
25		0.017				0.229	11	0.22	6.5	0.077	7 S	0.05	25
26		0.016				0.242	10	0.21		0.072	7	0.04	26
27		0.015				0.199	12	0.21		0.075	8	0.05	27
28		0.018				0.165	15	0.21		0.069	7	0.04	28
29		0.018				0.151	19	0.25		0.066	7	0.04	29
30		0.028				0.143	22	0.27	7.5	0.065	7 S	0.04	30
31						0.133	26	0.30					31
TOTAL		0.284				3.038		3.43		3.915		2.40	TOTAL
MEAN		0.009				0.098		0.11		0.130		0.08	MEAN

ALBERTA

CABIN CREEK NEAR SEEBE - STATION NO. 05BF019

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.077	10	0.07		0.082	4	0.03	7.0	0.023	8 S	0.02	1
2		0.076	9	0.06		0.077	4	0.03		0.022	8	0.02	2
3		0.072	9	0.06		0.074	5	0.03		0.021	8	0.01	3
4		0.069	8	0.05	6.0	0.071	5 S	0.03		0.021	8	0.01	4
5		0.066	7	0.04		0.066	5	0.03		0.020	8	0.01	5
6		0.064	6	0.03		0.062	6	0.03		0.020	8	0.01	6
7		0.062	4	0.02		0.061	6	0.03		0.019	8	0.01	7
8	4.8	0.058	3 S	0.02		0.057	6	0.03	7.0	0.018	8 S	0.01	8
9		0.055	3	0.01		0.052	6	0.03	8.0	0.018	8 S	0.01	9
10		0.052	2	0.01		0.051	6	0.03		0.018	8	0.01	10
11		0.051	2	0.01	9.0	0.048	7 S	0.03		0.017	9	0.01	11
12		0.048	2	0.01		0.047	7	0.03		0.016	10	0.01	12
13		0.049	3	0.01		0.045	6	0.02		0.016	10	0.01	13
14		0.077	19	0.13		0.043	6	0.02		0.016	11	0.02	14
15	5.0	0.076	13 S	0.09		0.040	6	0.02	7.0	0.015	11 S	0.01	15
16		0.083	12	0.09		0.040	6	0.02		0.015	10	0.01	16
17		0.083	12	0.09		0.040	5	0.02		0.014	9	0.01	17
18		0.081	12	0.08	8.5	0.037	5 S	0.02		0.014	7	0.01	18
19		0.076	12	0.08		0.034	6	0.02		0.014	6	0.01	19
20		0.073	12	0.08		0.033	8	0.02		0.014	5	0.01	20
21	5.5	0.072	13 S	0.08		0.032	9	0.02		0.014	4	0	21
22		0.068	13	0.08		0.031	10	0.03	5.0	0.013	3 S	0	22
23		0.074	11	0.07		0.029	11	0.03		0.013	4	0	23
24		0.077	10	0.07		0.028	12	0.03		0.013	5	0.01	24
25		0.082	9	0.06	9.5	0.027	13 S	0.03		0.013	6	0.01	25
26		0.079	8	0.05		0.026	13	0.03		0.013	7	0.01	26
27		0.075	5	0.03		0.025	12	0.03		0.013	9	0.01	27
28	5.5	0.075	3 S	0.02		0.023	11	0.02	5.0	0.013	12 S	0.01	28
29		0.093	4	0.03		0.023	11	0.02		0.012	13	0.01	29
30		0.086	3	0.02		0.025	11	0.02		0.012	12	0.01	30
31		0.084	4	0.03		0.023	9	0.02					31
TOTAL		2.213		1.58		1.352		0.80		0.480		0.30	TOTAL
MEAN		0.071		0.05		0.044		0.03		0.016		0.01	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.012	10	0.01		0.007				0.007			1
2		0.012	9	0.01		0.007				0.005			2
3		0.012	8	0.01		0.007				0.005			3
4		0.011	6	0.01		0.007				0.005			4
5		0.011	4	0		0.006				0.005			5
6		0.011	2	0		0.006				0.005			6
7		0.011	2	0		0.006				0.005			7
8		0.011	2	0		0.006				0.005			8
9	2.5	0.011	2 S	0		0.006				0.005			9
10		0.011	2	0		0.006				0.005			10
11		0.011	2	0		0.006				0.005			11
12		0.011	2	0		0.006				0.005			12
13		0.010	2	0		0.006				0.005			13
14		0.010	2	0		0.006				0.005			14
15		0.010	2	0		0.006				0.005			15
16		0.010	2	0		0.006				0.005			16
17		0.010	2	0		0.006				0.005			17
18		0.009	2	0		0.005				0.005			18
19		0.009	2	0		0.006				0.005			19
20		0.009	2	0		0.006				0.005			20
21		0.009	2	0		0.006				0.005			21
22		0.008	2	0		0.006				0.005			22
23		0.008	2	0		0.006				0.004			23
24		0.008	2	0		0.007				0.004			24
25		0.008	2	0		0.006				0.004			25
26		0.009	2	0		0.005				0.004			26
27	3.5	0.008	2 S	0		0.006				0.004			27
28		0.008	3	0		0.007				0.002 A			28
29	1.0	0.007	4 S	0		0.007				0.002 E			29
30		0.007	3	0		0.006				0.002 E			30
31		0.007	3	0						0.002 E			31
TOTAL		0.299		0.04		0.185				0.140			TOTAL
MEAN		0.009		0		0.006				0.005			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	30 ON JUN 01	MAXIMUM DAILY	0.46 ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 33 N
LONG 115 10 00 W
DRAINAGE AREA 2.12 km^2
NATURAL FLOW

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		44.6 B				53.4 B				54.1 B			1
2		44.8 B				53.7 B				53.8 B			2
3		45.2 B				53.3 B				53.8 B			3
4		45.6 B				53.3 B				53.9 B			4
5		45.8 B				53.7 B				54.1 B			5
6		46.1 B				53.9 B				54.2 B			6
7		47.0 B				54.1 B				54.3 B			7
8		47.3 B				54.6 B				54.3 B			8
9		47.1 B				53.9 B				54.5 B			9
10		47.4 B				53.1 B				54.6 B			10
11		47.5 B				52.9 B				54.7 B			11
12		48.3 B				52.4 B				55.2 B			12
13		48.6 B				51.4 B				55.4 B			13
14		48.8 B				51.9 B				56.3 B			14
15		49.2 B				51.7 B				56.8 B			15
16		49.7 B				51.2 B				57.5 B			16
17		49.7 B				50.9 B				58.4 B			17
18		50.4 B				50.4 B				58.9 B			18
19		51.2 B				51.3 B				59.4 B			19
20		51.6 B				52.7 B				60.4 B			20
21		51.4 B				52.7 B				60.4 B			21
22		51.1 B				52.8 B				59.2 B			22
23		51.2 B				53.2 B				58.7 B			23
24		51.7 B				53.3 B				58.7 B			24
25		52.5 B				53.3 B				58.7 B			25
26		52.1 B				53.9 B				59.0 B			26
27		51.9 B				54.1 B				61.4 B			27
28		52.1 B				54.1 B				63.1 B			28
29		53.0 B								66.4 B			29
30		53.1 B								67.1 B			30
31		53.4 B								69.1 B			31
TOTAL		1 529.4				1 481.2				1 796.4			TOTAL
MEAN		49.3				52.9				57.9			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		71.7 B				190 E				110	24	228	1
2		73.7 B				194 E				109	28	264	2
3		75.5 B				196 E			20.0	107	31 S	287	3
4		78.0 B				195 E				107	26	240	4
5		81.4 B				190 E			20.0	105	19 S	172	5
6		85.5 B				186 E				105	19	172	6
7		86.6 B				180 E			18.0	106	21 S	192	7
8		87.9 B				175 E				107	24	222	8
9		91.0 B				173 E				110	27	257	9
10		95.4 B				168 E			17.0	116	36 S	361	10
11		97.0 B				164 E			18.0	118	37 S	377	11
12		98.0 B				162 E				116	28	281	12
13		98.0 B				158 E				115	31	308	13
14		98.0 B				155 E			20.0	112	39 S	377	14
15		99.0 B				152 E				109	41	386	15
16		103 B				149 E				107	32	296	16
17		103 B				146 E			18.0	104	21 S	189	17
18		104 B				143 E				101	17	148	18
19		107 B				140 E				99.2	16	137	19
20		112 B				138 E			17.0	97.5	17 S	143	20
21		119 B				135 E			18.0	98.8	29 S	248	21
22		130 B				132 E				100	33	285	22
23		144 B				129 E				101	35	305	23
24		166 B				126 E				104	38	341	24
25		180 B				123 E				107	42	388	25
26		187 B				120 E				109	45	424	26
27		188 E				118 E				110	46	437	27
28		188 E				117 E			20.0	110	46 S	437	28
29		186 E			18.0	116 A	46 S	461		108	41	383	29
30		187 E				114				106	32	293	30
31					19.0	112	30 S	290					31
TOTAL		3 520.7				4 696				3 218.5		8 578	TOTAL
MEAN		117				151				107		286	MEAN

ALBERTA

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	23.0	103	29 S	258		91.8	20	159	15.0	50.5	7 S	30.5	1
2		100	28	242	22.0	89.8	21 S	163		50.9	7	30.8	2
3		96.6	27	225		88.7	20	153		49.8	9	38.7	3
4		92.4	26	208		87.7	20	152		49.3	11	46.9	4
5	20.0	88.1	25 S	190	24.0	86.0	20 S	149		49.5	12	51.3	5
6		86.3	24	179	24.0	83.6	26 S	188		48.1	14	58.2	6
7		86.3	25	186		81.5	65	458		47.3	15	61.3	7
8		94.4	32	261	23.0	79.1	118 S	806		46.9	17	68.9	8
9		116	51	511		76.7	105	696		46.8	18	72.8	9
10		126	70	762	19.0	74.9	69 S	447		46.5	18	72.3	10
11		141	77	938		72.0	38	236		45.4	18	70.6	11
12		146	86	1 080	21.0	69.0	20 S	119	15.0	44.3	18 S	68.9	12
13		148	87	1 110		66.3	17	97.4		43.7	18	68.0	13
14		147	86	1 090	21.0	63.5	15 S	82.3		43.7	17	64.2	14
15	21.0	145	87 S	1 090	22.0	62.4	17 S	91.7		43.2	15	56.0	15
16		144	97	1 210		60.9	18	94.7		43.6	12	45.2	16
17	24.0	143	107 S	1 320	22.0	59.2	10 S	51.1		42.8	11	40.7	17
18		138	97	1 160		58.7	8	40.6		41.5	10	35.9	18
19	23.0	133	76 S	873		57.7	7	34.9		41.1	9	32.0	19
20		126	70	762		56.0	7	33.9	14.0	40.7	9 S	31.6	20
21		120	72	746		58.2	8	40.2		40.5	9	31.5	21
22	21.0	118	83 S	846	21.0	56.1	12 S	58.2		41.0	9	31.9	22
23	18.0	114	96 S	946		55.1	13	61.9		39.7	9	30.9	23
24		109	78	735	22.0	55.1	15 S	71.4		39.3	10	34.0	24
25	20.0	106	45 S	412		55.2	16	76.3	18.0	40.5	12 S	42.0	25
26		106	44	403		55.3	16	76.4		40.4	10	34.9	26
27	21.0	102	40 S	353		54.6	15	70.8	9.0	40.8	8 S	28.2	27
28		100	33	285		53.3	14	64.5		41.6	6	21.6	28
29		97.8	26	220	19.0	53.0	13 S	59.5		41.2	5	17.8	29
30	21.0	96.1	22 S	183	15.0	51.4	11 S	48.9		41.4	4	14.3	30
31		94.4	21	171		50.5	9	39.3					31
TOTAL		3 563.4		18 955		2 063.3		4 920.0		1 322.0		1 331.9	TOTAL
MEAN		115		611		66.6		159		44.1		44.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		41.5				68.0 B				34.9 B			1
2		41.2				65.0 B				35.2 B			2
3		41.0				64.0 B				38.2 B			3
4		40.9				62.0 B				37.4 B			4
5		41.0				60.0 B				34.4 B			5
6		41.3				59.0 B				38.7 B			6
7		40.9				63.1 B				42.1 B			7
8		41.5				46.7 B				39.4 B			8
9		43.5				44.7 B				39.0 B			9
10		46.4				51.9 B				38.0 B			10
11		45.3				45.7 B				37.0 B			11
12		45.6				52.1 B				37.0 B			12
13		48.3				55.5 B				37.0 B			13
14		49.3				44.3 B				37.0 B			14
15		50.5				42.6 B				36.0 B			15
16		53.1				42.0 B				36.0 B			16
17		54.8				43.0 B				36.0 B			17
18		54.5				45.1 B				37.0 B			18
19		54.9				45.5 B				37.0 B			19
20		55.7				44.5 B				38.0 B			20
21		55.0				43.9 B				40.0 B			21
22		51.4 B				43.0 B				41.0 B			22
23		48.7 B				42.6 B				43.0 B			23
24		45.4 B				38.3 B				44.0 B			24
25		45.9 B				37.9 B				44.0 B			25
26		55.9 B				33.9 B				44.0 B			26
27		56.6 B				33.9 B				44.0 B			27
28		60.0 B				32.6 B				44.0 B			28
29		64.0 B				34.0 B				43.0 B			29
30		67.0 B				35.0 B				43.0 B			30
31		70.0 B								42.0 B			31
TOTAL		1 551.1				1 419.8				1 217.3			TOTAL
MEAN		50.0				47.3				39.3			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	118 ON AUG 08	MAXIMUM DAILY	1 320 ON JUL 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 40 50 N
LONG 111 15 00 W
DRAINAGE AREA 30 600 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 27	15:30	825 H	17.0	600 K	18	26	38	52	66	81	93	98	100			BHW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ALBERTA

DEERLICK CREEK NEAR HINTON - STATION NO. 07AF004

SUSPENDED SEDIMENT FOR 1981

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.010 B				0.080 B	3	0.02		0.320	12	0.33	1
2		0.013 B				0.075 B	4	0.03		0.286	9	0.22	2
3		0.016 B				0.070 B	5	0.03		0.281	7	0.17	3
4		0.019 B				0.065 B	7	0.04		0.247	4	0.09	4
5		0.022 B			0.1	0.060 B	10 S	0.05	7.0	0.221	3 S	0.06	5
6		0.024 B				0.068 B	9	0.05		0.216	2	0.04	6
7		0.026 B				0.100 B	12	0.10		0.203	2	0.04	7
8		0.028 B				0.120 B	82	0.85		0.190	3	0.05	8
9		0.032 B			0.1	0.211 B	91 S	1.66	5.0	0.187	3 S	0.05	9
10		0.037 B				0.426 B	71	2.61		0.241	4	0.08	10
11		0.041 B			0.1	0.527 B	62 S	2.82		0.276	13	0.31	11
12		0.045 B			0.1	0.432 B	59 S	2.20	6.0	0.287	6 S	0.15	12
13		0.050 B			0.1	0.310 B	47 S	1.26	4.0	0.451	32 S	1.25	13
14		0.054 B			1.0	0.410 B	96 S	3.40		0.406	18	0.63	14
15		0.058 B			1.0	0.790 B	150 S	10.2		0.352	13	0.40	15
16		0.066 B				0.480	62	2.57		0.313	11	0.30	16
17		0.074 B				0.379	34	1.11		0.295	9	0.23	17
18		0.082 B				0.320	27	0.75		0.280	7	0.17	18
19		0.090 B			4.0	0.278	20 S	0.48	5.0	0.257	5 S	0.11	19
20		0.098 B				0.271	17	0.40		0.260	5	0.11	20
21		0.106 B			4.0	0.332	19 S	0.55	4.0	0.250	5 S	0.11	21
22		0.114 B			4.0	0.441	33 S	1.26		0.223	4	0.08	22
23		0.121 B			2.0	0.428	20 S	0.74		0.207	3	0.05	23
24		0.122 B				0.356	12	0.37		0.185	3	0.05	24
25		0.118 B				0.356	11	0.34	8.0	0.166	2 S	0.03	25
26		0.100 B			4.0	0.352	10 S	0.30		0.149	2	0.03	26
27		0.080 B				0.313	8	0.22		0.179	6	0.09	27
28		0.072 B				0.294	5	0.13	5.0	0.156	1 S	0.01	28
29		0.068 B			6.0	0.273	2 S	0.05		0.136	2	0.02	29
30		0.070 B				0.258	2	0.04	8.0	0.123	4 S	0.04	30
31					4.0	0.321	10 S	0.28					31
TOTAL		1.856				9.196		34.91		7.343		5.30	TOTAL
MEAN		0.062				0.296		1.13		0.245		0.18	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.112	3	0.03		0.607	23	1.21	7.0	0.071	5 S	0.03	1
2		0.101	3	0.03	6.0	0.493	10 S	0.43	5.0	0.101	6 S	0.05	2
3	12.0	0.094	2 S	0.02		0.404	8	0.28	7.0	0.114	8 S	0.08	3
4		0.093	2	0.02		0.357	7	0.22		0.091	7	0.06	4
5		0.093	3	0.02	8.0	0.310	7 S	0.19		0.088	6	0.05	5
6	7.0	0.095	3 S	0.02		0.271	7	0.16		0.075	6	0.04	6
7	6.0	0.171	9 S	0.13	8.0	0.236	6 S	0.12		0.062	6	0.03	7
8		0.135	6	0.07		0.210	5	0.09		0.059	6	0.03	8
9		0.106	3	0.03		0.187	5	0.08	6.0	0.057	6 S	0.03	9
10		0.098	2	0.02		0.171	5	0.07		0.054	6	0.03	10
11		0.093	2	0.02		0.154	4	0.05		0.052	6	0.03	11
12	6.0	0.088	2 S	0.02	12.0	0.147	4 S	0.05	6.0	0.051	6 S	0.03	12
13		0.089	3	0.02		0.135	3	0.03		0.049	5	0.02	13
14	7.0	0.239	55 S	1.14	8.0	0.121	2 S	0.02		0.047	3	0.01	14
15		0.332	53	1.52		0.110	2	0.02		0.046	2	0.01	15
16	9.0	0.230	11 S	0.22		0.100	2	0.02	9.0	0.046	1 S	0	16
17		0.190	9	0.15		0.096	2	0.02		0.044	1	0	17
18	8.0	0.168	8 S	0.12	11.0	0.086	3 S	0.02		0.044	1	0	18
19		0.162	6	0.08		0.078	3	0.02	8.0	0.053	4 S	0.02	19
20	8.0	0.158	3 S	0.04		0.072	2	0.01		0.057	3	0.01	20
21	8.0	0.301	17 S	0.44	8.0	0.068	2 S	0.01	6.0	0.053	5 S	0.02	21
22	8.0	0.381	23 S	0.76		0.064	2	0.01		0.058	9	0.05	22
23		0.680	37	2.17		0.059	2	0.01		0.058	7	0.04	23
24	7.0	0.901	57 S	4.44	8.0	0.060	2 S	0.01	3.0	0.062	6 S	0.03	24
25	8.0	0.733	34 S	2.15		0.058	2	0.01		0.060	5	0.03	25
26		0.562	25	1.21	13.0	0.055	2 S	0.01		0.056	5	0.02	26
27		0.445	24	0.92		0.054	2	0.01		0.051	5	0.02	27
28	7.0	0.405	31 S	1.08		0.049	2	0.01		0.049	5	0.02	28
29	7.0	0.524	46 S	2.08	8.0	0.065	5 S	0.03		0.046	5	0.02	29
30	7.0	0.995	68 S	5.85		0.087	11	0.08		0.044	5	0.02	30
31		0.691	44	2.63		0.073	8	0.05					31
TOTAL		9.465		27.45		5.037		3.35		1.798		0.83	TOTAL
MEAN		0.305		0.89		0.162		0.11		0.060		0.03	MEAN

DEERLICK CREEK NEAR HINTON - STATION NO. 07AF004

SUSPENDED SEDIMENT FOR 1981

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.043				0.053							1
2		0.045				0.053							2
3		0.043 B				0.048 B							3
4		0.041 B				0.042 B							4
5		0.042 B											5
6		0.040											6
7		0.044											7
8		0.047											8
9		0.046											9
10		0.048											10
11		0.046											11
12		0.045											12
13		0.044											13
14		0.046											14
15		0.044											15
16		0.046											16
17		0.046											17
18		0.045											18
19		0.045											19
20		0.044											20
21		0.043 B											21
22		0.042 B											22
23		0.041											23
24		0.047											24
25		0.050											25
26		0.045											26
27		0.042											27
28		0.043 B											28
29		0.044 B											29
30		0.045 B											30
31		0.045											31
TOTAL		1.377											TOTAL
MEAN		0.044											MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	150 ON MAY 15	MAXIMUM DAILY	10.2 ON MAY 15

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 20 N
LONG 117 14 36 W
DRAINAGE AREA 14.0 km^2
NATURAL FLOW

ALBERTA

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.220 B			1
2										0.220 B			2
3										0.250 B			3
4										0.270 B			4
5										0.295 B			5
6										0.276 B			6
7										0.257 B			7
8										0.238 B			8
9										0.219 B			9
10										0.200 B			10
11										0.220 B			11
12										0.270 B			12
13										0.330 B			13
14										0.400 B			14
15										0.470 B			15
16										0.490 B			16
17										0.500 B			17
18										0.509 B			18
19										0.470 B			19
20										0.390 B			20
21										0.270 B			21
22										0.220 B			22
23										0.330 B			23
24										0.430 B			24
25										0.530 B			25
26										0.580 B			26
27										0.530 B			27
28										0.520 B			28
29										0.590 B			29
30										0.694 B			30
31										0.787 B			31
TOTAL										11.975			TOTAL
MEAN										0.386			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.986 B				18.1	153	239		24.0	1 130	2 340	1
2		1.20 B				19.0	160	263		18.1	911	1 420	2
3		1.67 B				18.8	146	237		17.8	957	1 470	3
4		2.04 B				15.8	117	160	9.0	18.2	999 S	1 570	4
5		2.51 B			7.0	13.5	94 S	110		12.8	665	735	5
6		3.74 B			6.0	12.4	126 S	135		9.65	491	409	6
7		4.34 B			6.0	11.4	103 S	101		9.01	441	343	7
8		3.41 B				12.5	117	126		8.44	434	316	8
9		4.28 B				11.4	94	92.6		6.46	242	135	9
10		3.90 B				10.4	69	62.0		5.33	127	54.5	10
11		3.38 B				10.2	59	52.0		4.54	99	38.8	11
12		2.73 B			4.0	9.23	47 S	37.5		3.92	88	29.8	12
13		2.68 B			4.0	8.69	45 S	33.8		4.26	97	35.7	13
14		2.95 B			4.0	8.02	64 S	44.3		5.86	131	66.3	14
15		2.60 B				7.65	61	40.3		5.38	97	45.1	15
16		3.57 B				7.09	45	27.6		5.80	97	48.6	16
17		3.99 B				6.53	40	22.6	7.0	17.7	441 S	674	17
18		4.04 B				6.33	34	18.6	7.0	36.7	868 S	2 750	18
19		4.31 B				6.39	30	16.6	11.0	22.2	364 S	698	19
20		9.26 B			4.0	5.55 A	29 S	13.9		16.5	182	259	20
21		17.4 B			3.0	5.56 A	27 S	13.0		12.5	104	112	21
22		18.2			4.0	5.57 A	21 S	10.1	6.0	10.1	46 S	40.1	22
23		18.3				6.09 E	16	8.42	14.0	8.21	26 S	18.4	23
24		22.1				6.84 E	12	7.09	16.0	7.44	19 S	12.2	24
25		40.0			17.5	7.64 A	41 S	27.1		6.54	15	8.48	25
26		27.9				7.03	58	35.2		5.17	23	10.3	26
27	5.5	19.1	302 S	498		6.04	43	22.4		4.34	27	10.1	27
28		18.7	226	365	17.0	5.72	34 S	16.8		3.79	26	8.51	28
29	6.0	17.7	156 S	239	16.0	5.34	36 S	16.6	18.0	3.47	24 S	7.20	29
30		16.2	131	183		5.59	52	25.1		3.01	24	6.24	30
31						10.2	215	189					31
TOTAL		283.186				290.60		2 203.61		317.22		13 675.33	TOTAL
MEAN		9.44				9.37		71.1		10.6		456	MEAN

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	15.0	2.67	17 S	3.92		1.90	21	3.45		0.237	7	0.14	1
2		2.40	17	3.53		1.62 A	21	2.94		0.249	8	0.17	2
3		2.07	17	3.04		1.41 E	23	2.80		0.274	8	0.19	3
4		1.82	16	2.52		1.24 E	21	2.25	12.5	0.263	5 S	0.11	4
5		1.65	15	2.14	17.0	1.10 E	16 S	1.52	10.2	0.259	5 S	0.11	5
6	21.0	1.61	17 S	2.36	17.0	0.960 E	16 S	1.33	11.5	0.257	8 S	0.18	6
7	19.0	1.62	16 S	2.24	18.0	0.830 E	16 S	1.15		0.258	8	0.18	7
8	20.0	1.47	20 S	2.54		0.706 E	14	0.85		0.258	8	0.18	8
9		1.35	18	2.10		0.594 E	13	0.67		0.258	8	0.18	9
10		1.23	19	2.02	22.5	0.533 A	9 S	0.41		0.260	9	0.20	10
11		1.10	14	1.33	21.6	0.493	8 S	0.34		0.258	11	0.25	11
12		1.02	14	1.23	19.0	0.461	9 S	0.36		0.256	13	0.29	12
13		0.944	12	0.98		0.434	7	0.26		0.256	14	0.31	13
14		0.901	7	0.54		0.413	8	0.29		0.259	14	0.31	14
15	18.0	1.45	20 S	2.51		0.393	8	0.27		0.263	14	0.32	15
16	19.0	3.24	63 S	17.6		0.374	8	0.26	12.5	0.264	16 S	0.36	16
17	17.0	2.73	47 S	11.1		0.352	9	0.27		0.267	15	0.35	17
18		2.13	37	6.81		0.336	7	0.20	12.0	0.273	11 S	0.26	18
19		1.71	30	4.43	20.0	0.319	8 S	0.22		0.278	9	0.22	19
20		1.43	23	2.84	20.0	0.305	8 S	0.21		0.296	8	0.20	20
21		2.11	81	14.8	21.0	0.297	7 S	0.18		0.298	9	0.23	21
22	19.0	9.90	941 S	805		0.290	7	0.18		0.612	36	1.90	22
23		27.3	2 950	6 960		0.282	8	0.19		0.624	36	1.94	23
24	17.0	17.6	1 370 S	2 080		0.275	8	0.19		0.762	38	2.50	24
25		13.3	961	1 100		0.269	8	0.19		1.05	49	4.45	25
26		8.47	525	384		0.261	8	0.18		1.06	47	4.30	26
27		6.14	248	132		0.252	8	0.17		1.17	44	4.45	27
28		4.34	84	31.5		0.243	8	0.17	7.0	0.945	10 S	0.82	28
29	18.0	3.31	36 S	10.3		0.238	8	0.16	7.0	0.802	6 S	0.42	29
30	18.0	2.70	18 S	4.20		0.236	8	0.16	6.0	0.700	6 S	0.36	30
31	16.0	2.30	17 S	3.38		0.237	7	0.14					31
TOTAL		132.015		11 600.96		17.653		21.96		13.266		25.88	TOTAL
MEAN		4.26		374		0.569		0.71		0.442		0.86	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.632	7	0.38									1
2		0.593	6	0.31									2
3		0.552	6	0.29									3
4		0.530	6	0.27									4
5		0.515	6	0.27									5
6		0.494	6	0.26									6
7	7.0	0.474	7 S	0.29									7
8	9.0	0.494	6 S	0.26									8
9	6.0	0.537	7 S	0.32									9
10		0.626	17	0.92									10
11		0.638	12	0.66									11
12		0.571	10	0.49									12
13		0.531	8	0.37									13
14		0.510	8	0.35									14
15		0.495	8	0.34									15
16		0.499	8	0.34									16
17		0.882	25	1.91									17
18		0.918	26	2.06									18
19		0.750	22	1.43									19
20		0.680	22	1.29									20
21		0.608	20	1.05									21
22		0.586	15	0.76									22
23		0.517	15	0.67									23
24		0.474	12	0.49									24
25		0.494	13	0.55									25
26		0.551 A	11	0.52									26
27		0.645 E	9 E	0.50									27
28		0.739 E	9 E	0.57									28
29		0.833 E	9 E	0.65									29
30		0.925 A	9 E	0.72									30
31		0.840 E	9 E	0.65									31
TOTAL		19.133		19.94									TOTAL
MEAN		0.617		0.64									MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 2 950 ON JUL 23

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 6 960 ON JUL 23

TYPE OF GAUGE - MANUAL
LOCATION - LAT 55 20 48 N
LONG 115 47 39 W
DRAINAGE AREA 837 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 18	15:07	36.7 M	7.0	744 K	17	27	40	56	69	86	97	100				BNW
JUN 19	13:50	21.9	11.0	296 R	15	24	37	50	61	68	80	92	96	98		BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

EUNICE CREEK NEAR HINTON - STATION NO. 07AF005

SUSPENDED SEDIMENT FOR 1981

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.010 B				0.059	4	0.02		0.274	9	0.21	1
2		0.012 B				0.050	4	0.02		0.293	8	0.20	2
3		0.015 B				0.042	3	0.01		0.261	7	0.16	3
4		0.017 B				0.040	3	0.01		0.234	7	0.14	4
5		0.020 B			1.8	0.038	3 S	0.01	7.3	0.214	7 S	0.13	5
6		0.022 B				0.040	3	0.01		0.206	5	0.09	6
7		0.025 B				0.052	3	0.01		0.192	4	0.07	7
8		0.027 B				0.085	5	0.04		0.181	4	0.06	8
9		0.029 B			2.5	0.183	12 S	0.19	4.8	0.178	4 S	0.06	9
10		0.032 B				0.284	22	0.54		0.194	6	0.10	10
11		0.034 B			1.8	0.272	24 S	0.56		0.282	10	0.24	11
12		0.037 B			1.0	0.259	17 S	0.38	5.7	0.295	8 S	0.20	12
13		0.039 B			2.6	0.197	12 S	0.20	3.7	0.466	29 S	1.17	13
14		0.042 B			2.3	0.240	23 S	0.48		0.400	15	0.52	14
15		0.045 B			0.8	0.515	73 S	3.25		0.354	11	0.34	15
16		0.048 B				0.338	22	0.64		0.319	9	0.25	16
17		0.051 B				0.268	6	0.14		0.291	7	0.18	17
18		0.053 B				0.234	5	0.10		0.276	4	0.10	18
19		0.056 B			4.2	0.202	4 S	0.07	4.4	0.242	2 S	0.04	19
20		0.059 B				0.205	5	0.09		0.242	4	0.08	20
21		0.062 B			4.5	0.227	8 S	0.16	3.8	0.231	3 S	0.06	21
22		0.065 B			4.0	0.310	14 S	0.37		0.207	3	0.05	22
23		0.068 B			2.0	0.303	10 S	0.26		0.189	4	0.07	23
24		0.068 B				0.248	8	0.17		0.174	4	0.06	24
25		0.069 B				0.233	8	0.16	8.0	0.164	5 S	0.07	25
26		0.065 B			4.2	0.226	8 S	0.16		0.153	4	0.05	26
27		0.056 B				0.204	7	0.12		0.172	4	0.06	27
28		0.051				0.191	7	0.12	4.8	0.158	2 S	0.03	28
29		0.051			4.0	0.177	5 S	0.08		0.142	3	0.04	29
30		0.051				0.176	4	0.06	6.9	0.134	4 S	0.05	30
31					4.7	0.232	7 S	0.14					31
TOTAL		1.279				6.130		8.57		7.118		4.88	TOTAL
MEAN		0.042				0.198		0.28		0.237		0.16	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.128	3	0.03		0.568	15	0.74	5.7	0.104	1 S	0.01	1
2		0.122	3	0.03	6.3	0.484	12 S	0.50	4.2	0.132	3 S	0.03	2
3	10.1	0.116	2 S	0.02		0.418	10	0.36	6.0	0.135	3 S	0.03	3
4		0.114	2	0.02		0.374	9	0.29		0.117	2	0.02	4
5		0.111	1	0.01	7.2	0.334	8 S	0.23		0.119	2	0.02	5
6	5.5	0.110	1 S	0.01		0.290	12	0.30	3.7	0.110	2 S	0.02	6
7	5.7	0.162	7 S	0.10	7.0	0.257	15 S	0.33		0.102	2	0.02	7
8		0.138	4	0.05		0.235	14	0.28		0.098	2	0.02	8
9		0.118	2	0.02		0.217	12	0.22		0.095	2	0.02	9
10		0.114	2	0.02		0.197	9	0.15		0.090	1	0.01	10
11		0.110	2	0.02		0.181	7	0.11		0.087	1	0.01	11
12	4.9	0.105	2 S	0.02	9.7	0.175	5 S	0.08	4.5	0.085	1 S	0.01	12
13		0.105	2	0.02		0.165	3	0.04		0.082	1	0.01	13
14	6.8	0.249	38 S	0.82	6.3	0.156	3 S	0.04		0.079	1	0.01	14
15		0.327	52	1.47		0.148	2	0.03		0.078	1	0.01	15
16	8.5	0.223	8 S	0.15		0.141	2	0.02	7.9	0.075	1 S	0.01	16
17		0.184	5	0.08		0.137	2	0.02		0.072	0	0	17
18	7.2	0.166	3 S	0.04	9.0	0.130	2 S	0.02		0.070	1 S	0.01	18
19		0.154	2	0.03		0.126	2	0.02	6.1	0.083	1 S	0.01	19
20	7.2	0.143	1 S	0.01		0.122	1	0.01		0.087	2	0.02	20
21	7.6	0.250	10 S	0.22	6.4	0.121	1 S	0.01	4.7	0.081	2 S	0.01	21
22	7.5	0.328	18 S	0.51		0.114	1	0.01		0.089	3	0.02	22
23		0.452	19	0.74		0.108	1	0.01		0.087	2	0.02	23
24	7.0	0.634	30 S	1.64	6.2	0.103	1 S	0.01	2.1	0.089	2 S	0.02	24
25	8.5	0.530	23 S	1.05		0.100	1	0.01		0.088	2	0.02	25
26		0.434	17	0.64	10.0	0.098	4 S	0.03		0.086	2	0.01	26
27		0.371	15	0.48		0.098	5	0.04		0.083	2	0.01	27
28	7.5	0.364	13 S	0.41		0.092	2	0.02		0.080	2	0.01	28
29	6.9	0.448	25 S	0.97	5.8	0.103	2 S	0.02		0.077	2	0.01	29
30	7.2	0.755	59 S	3.85		0.122	4	0.04		0.075	2	0.01	30
31		0.609	19	1.00		0.105	1	0.01					31
TOTAL		8.174		14.48		6.019		4.00		2.735		0.44	TOTAL
MEAN		0.264		0.47		0.194		0.13		0.091		0.01	MEAN

EUNICE CREEK NEAR HINTON - STATION NO. 07AF005

SUSPENDED SEDIMENT FOR 1981

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.074				0.074							1
2		0.076				0.074							2
3		0.073 B				0.071							3
4		0.070				0.065 B							4
5		0.071 B											5
6		0.073											6
7		0.075											7
8		0.078											8
9		0.078											9
10		0.077											10
11		0.076											11
12		0.074											12
13		0.072											13
14		0.073											14
15		0.074											15
16		0.074											16
17		0.073											17
18		0.071											18
19		0.070											19
20		0.067											20
21		0.066 B											21
22		0.065 B											22
23		0.064											23
24		0.070											24
25		0.076											25
26		0.072											26
27		0.069											27
28		0.067											28
29		0.066											29
30		0.066 B											30
31		0.067											31
TOTAL		2.217											TOTAL
MEAN		0.071											MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 73 ON MAY 15
MINIMUM DAILY 0 ON SEP 17

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 3.85 ON JUL 30
MINIMUM DAILY 0 ON SEP 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 10 N
LONG 117 13 55 W
DRAINAGE AREA 17.1 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

LESSER SLAVE RIVER AT HIGHWAY NO. 2 - STATION NO. 07BK006

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		25.0 B				31.6 B				32.0 B			1
2		24.5 B				31.6 B				31.5 B			2
3		26.0 B				31.8 B				33.7 B			3
4		27.9 B				31.8 B				34.6 B			4
5		27.5 B				31.5 B				35.9 B			5
6		27.0 B				31.5 B				35.7 B			6
7		26.5 B				27.8 B				35.2 B			7
8		26.0 B				25.0 B				36.3 B			8
9		25.5 B				23.9 B				37.4 B			9
10		26.0 B				23.2 B				38.0 B			10
11		26.0 B				24.6 B				39.2 B			11
12		26.5 B				25.8 B				40.3 B			12
13		26.3 B				26.5 B				41.9 B			13
14		26.1 B				27.0 B				42.3 B			14
15		26.0 B				28.3 B				42.9 B			15
16		25.9 B				29.5 B				43.4 B			16
17		25.8 B				29.9 B				43.9 B			17
18		26.0 B				29.8 B				43.3 B			18
19		27.0 B				29.6 B				42.9 B			19
20		29.8 B				29.9 B				42.4 B			20
21		28.9 B				30.6 B				42.2 B			21
22		28.9 B				31.6 B				42.1 B			22
23		28.8 B				32.5 B				42.3 B			23
24		29.0 B				32.5 B				42.9 B			24
25		29.7 B				32.5 B				43.6 B			25
26		31.5 B				32.8 B				44.3 B			26
27		31.8 B				32.9 B				44.8 B			27
28		31.5 B				33.1 B				45.3			28
29		31.3 B								45.7			29
30		31.8 B								46.0			30
31		31.7 B							3.0	46.1 A	29 S	116	31
TOTAL		862.2				829.1				1 258.1			TOTAL
MEAN		27.8				29.6				40.6			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		46.1 E	27	108		59.8 E	84	434	13.5	55.1	23 S	109	1
2		46.0 E	27	107	5.5	59.7 A	90 S	464		55.2	28	134	2
3		46.0 E	25	99.4		59.8 E	70	362	12.5	56.8	38 S	186	3
4		45.9 E	25	99.1	5.5	59.8 A	40 S	207		59.2	48	246	4
5		45.9 E	24	95.2		58.7 E	30	152	14.0	58.9	51 S	260	5
6		45.9 E	24	95.2	6.5	57.5 A	31 S	154		55.5	48	230	6
7		45.8 E	24	95.0		58.7 A	35	178	13.5	59.2	38 S	194	7
8	2.5	45.8 A	25 S	98.9	7.0	58.1	34 S	171		56.3	37	180	8
9		45.8	31	123		57.2	31	153	15.5	55.6	50 S	240	9
10	0.5	45.7	40 S	158	6.5	57.8	33 S	165		55.7	50	241	10
11		45.5	42	165		57.9	33	165	16.0	55.3	40 S	191	11
12	0.1	45.4	41 S	161	10.5	57.6	33 S	164		55.6	38	183	12
13		45.0	35	136		57.2	33	163	12.0	55.3	40 S	191	13
14	1.5	44.4	30 S	115	10.0	55.5	34 S	163		55.2	39	186	14
15		45.0	39	152		54.2	28	131	17.5	55.6	39 S	187	15
16	0.5	46.5	76 S	305	9.5	54.4	27 S	127		55.7	48	231	16
17		46.6	59	238		54.4	30	141	15.0	59.9	51 S	264	17
18	2.5	47.2	44 S	179	9.5	55.2	38 S	181		61.3	49	260	18
19		47.2	41	167		56.1	40	194	14.5	60.4	43 S	228	19
20	3.0	48.3	50 S	209	10.0	56.3	38 S	185		60.0	38	197	20
21		50.3	45	196		56.2	36	175	14.5	61.5	44 S	234	21
22	4.0	51.5 A	43 S	191	14.0	55.1	29 S	138		62.4	48	259	22
23		52.8 E	56	255		55.0	33	157	16.0	61.1	42 S	222	23
24	2.5	54.1 E	90 S	421	10.5	54.6	36 S	170		61.3	42	222	24
25		55.4 E	89	426		54.4	37	174	15.5	59.5	42 S	216	25
26	2.5	56.7 E	64 S	314	12.0	54.7	41 S	194		60.1	61	317	26
27		58.0 E	45	226		55.6	53	255	17.0	59.0	69 S	352	27
28	5.5	59.4 A	33 S	169	12.5	55.7	50 S	241		57.9	60	300	28
29		59.7 E	39	201	14.5	55.0	34 S	162	18.0	56.2	48 S	233	29
30	5.5	59.9 A	56 S	290	12.5	53.7	28 S	130		56.9	38	187	30
31						54.3	26	122					31
TOTAL		1 477.8		5 594.8		1 750.2		5 972		1 737.7		6 676	TOTAL
MEAN		49.3		186		56.5		193		57.9		223	MEAN

ALBERTA

LESSER SLAVE RIVER AT HIGHWAY NO. 2 - STATION NO. 07BK006

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		56.5	37	181		51.4	27	120	16.0	40.3	24 S	83.6	1
2	19.0	55.9	32 S	155		51.2	28	124		41.8	31	112	2
3	19.0	55.4	52 S	249	21.0	50.4	34 S	148	16.0	39.9	27 S	93.1	3
4		55.9	78	377		50.3	37	161		39.3	25	84.9	4
5		53.7	98	455		50.1	37	160		39.6	27	92.4	5
6	18.5	54.3	111 S	521	22.0	50.2	38 S	165	15.5	39.8	32 S	110	6
7		54.9	118	560		49.8	36	155		39.3	43	146	7
8		60.7	120	629		49.0	35	148		38.7	57	191	8
9	14.5	56.3	107 S	520	21.5	48.4	33 S	138	15.0	38.6	57 S	190	9
10		53.0	69	316		48.1	34	141		41.2	40	142	10
11		51.9	43	193		47.7	32	132		40.0	28	96.8	11
12	18.5	51.5	30 S	133	20.0	47.7	33 S	136	14.0	39.7	25 S	85.8	12
13		51.5	28	125		47.4	31	127		37.4	19	61.4	13
14		51.8	28	125		45.4	26	102		36.2	17	53.2	14
15	19.0	52.6	31 S	141	20.0	46.0	26 S	103	13.5	34.4	20 S	59.4	15
16		51.8	30	134		46.3	27	108		34.0	21	61.7	16
17		50.7	29	127		45.8	27	107		35.1	24	72.8	17
18	21.0	50.6	26 S	114	20.5	45.8	26 S	103	14.5	33.4	24 S	69.3	18
19		50.9	27	119		43.4	23	86.2		35.2	25	76.0	19
20		50.0	30	130		44.4	25	95.9		39.0	38	128	20
21	19.0	51.4	36 S	160	20.0	44.5	26 S	100.0	12.5	36.3	37 S	116	21
22		53.7	44	204		44.1	25	95.3		35.2	33	100	22
23		58.6	54	273		43.4	23	86.2		35.2	33	100	23
24	19.0	58.4	52 S	262	20.5	42.4	22 S	80.6	12.0	34.3	21 S	62.2	24
25		55.7	45	217		41.8	21	75.8		34.8	16	48.1	25
26		53.3	38	175		41.2	20	71.2		34.9	15	45.2	26
27	20.0	53.8	39 S	181	19.5	41.9	21 S	76.0	10.5	32.4	16 S	44.8	27
28		53.7	33	153		43.1	27	101		31.0	15	40.2	28
29		52.9	30	137		42.6	23	84.7		32.8	15	42.5	29
30	19.5	52.4	26 S	118	16.0	41.8	24 S	86.7	11.0	32.7	15 S	42.4	30
31		51.7	26	116		40.7	22	77.4					31
TOTAL		1 665.5		7 300		1 426.3		3 495.0		1 102.5		2 650.8	TOTAL
MEAN		53.7		235		46.0		113		36.8		88.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		32.5	16	44.9		29.8				30.4 B			1
2		34.0	21	61.7		29.2				30.7 B			2
3	8.5	33.7	27 S	78.6		27.0				30.1 B			3
4		32.5	26	73.0		31.4				27.2 B			4
5		31.7	22	60.3		29.7				18.9 B			5
6	8.0	30.6	17 S	44.9		29.1				14.8 B			6
7		29.7	12	30.8		30.1				14.9 B			7
8		32.1	31	86.0		28.2				14.7 B			8
9	5.0	34.4	54 S	160		28.1				15.7 B			9
10		34.2	47	139		28.2				16.3 B			10
11		33.2	34	97.5		27.4				16.3 B			11
12	4.5	32.8	32 S	90.7		27.7				16.1 B			12
13		33.2	35	100		28.4				15.7 B			13
14		32.6	33	92.9		27.4				15.1 B			14
15	6.5	32.3	31 S	86.5		27.6				14.6 B			15
16		33.5	31	89.7		27.6				14.5 B			16
17		33.1	30	85.8		27.5				14.2 B			17
18	7.0	31.5	25 S	68.0		28.1				13.7 B			18
19		33.4	28	80.8		26.6				13.6 B			19
20		32.4	29	81.2		26.3				13.7 B			20
21	3.5	31.8	36 S	98.9		26.3				14.1 B			21
22		29.9	31	80.1		28.5 B				14.3 B			22
23		31.3	40	108		30.0 B				14.2 B			23
24	3.0	30.9	50 S	133		27.2 B				14.2 B			24
25		28.1	45	109		28.2 B				14.0 B			25
26		30.6	35	92.5		30.3 B				14.1 B			26
27	0.5	26.9	22 S	51.1		30.8 B				13.9 B			27
28		24.5	23	48.7		29.0 B				13.8 B			28
29		28.5	23	56.6		29.9 B				13.6 B			29
30		28.9	23	57.4		31.5 B				13.5 B			30
31		28.7	23	57.0						13.5 B			31
TOTAL		973.5		2 544.6		857.1				514.4			TOTAL
MEAN		31.4		82.1		28.6				16.6			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 120 ON JUL 08

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 629 ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 17 39 N
LONG 114 35 26 W
DRAINAGE AREA 14 400 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MARMOT CREEK (MAIN STEM) - STATION NO. 05BF016

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.028				0.021				0.017			1
2		0.028				0.021				0.017			2
3		0.027				0.021				0.017			3
4		0.026				0.020				0.016			4
5		0.025				0.020				0.016			5
6		0.025				0.020				0.016			6
7		0.024				0.019				0.016			7
8		0.024				0.019				0.016			8
9		0.023				0.018				0.016			9
10		0.022				0.018				0.016			10
11		0.022				0.018				0.016			11
12		0.022				0.018				0.017			12
13		0.021				0.018				0.017			13
14		0.022				0.018				0.018			14
15		0.021				0.017				0.018			15
16		0.022				0.017				0.018			16
17		0.023				0.016				0.018			17
18		0.024				0.016				0.018			18
19		0.024				0.016				0.018			19
20		0.023				0.016				0.018			20
21		0.022				0.016				0.018			21
22		0.022				0.016				0.018			22
23		0.022				0.016				0.017			23
24		0.022				0.016				0.017			24
25		0.022				0.017				0.017			25
26		0.022				0.017				0.017			26
27		0.022				0.017				0.018			27
28		0.022				0.017				0.018			28
29		0.022								0.019			29
30		0.022								0.019			30
31		0.022								0.020			31
TOTAL		0.718				0.499				0.537			TOTAL
MEAN		0.023				0.018				0.017			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.020	0	0		0.181	0	0		1.06	5	0.46	1
2		0.019	0	0		0.112	0	0		1.04	4	0.36	2
3		0.019	0	0		0.097	0	0	3.0	1.12	3 S	0.29	3
4		0.019	0	0		0.090	0	0		1.05	3	0.27	4
5		0.018	0	0		0.086	0	0		0.967	3	0.25	5
6		0.018	0	0		0.081	0	0		0.912	3	0.24	6
7		0.018	0	0		0.071	0	0		0.806	3	0.21	7
8		0.018	0	0		0.074	0	0		0.678	2	0.12	8
9		0.018	0	0		0.078	0	0	3.0	0.597	2 S	0.10	9
10		0.018	0	0		0.084	0	0		0.541 A	2	0.09	10
11		0.018	0	0		0.083	0	0		0.603 E	2	0.10	11
12		0.018	0	0		0.084	0	0		0.590 E	2	0.10	12
13		0.018	0	0		0.096	0	0		0.616 E	2	0.11	13
14		0.018	0	0		0.131	7	0.08		0.616 E	2	0.11	14
15		0.021	0	0		0.176	14	0.21		0.641 E	3	0.17	15
16		0.025	0	0		0.150	21	0.27		0.672 E	3	0.17	16
17		0.025	0	0	2.5	0.149	38 S	0.49		0.636 E	3	0.16	17
18		0.027	0	0		0.209	24	0.43		0.583 E	2	0.10	18
19		0.031	0	0		0.307	11	0.29		0.539 E	2	0.09	19
20		0.041	0	0	1.5	0.376	7 S	0.23		0.505 E	2	0.09	20
21		0.045	0	0		0.811	11	0.77		0.487 E	2	0.08	21
22		0.043	0	0	2.5	0.996	10 S	0.86		0.467 E	1	0.04	22
23		0.057	0	0		1.05	8	0.73	2.0	0.452 E	1 S	0.04	23
24		0.074	0	0		1.16	11	1.10		0.437 E	1	0.04	24
25		0.058	0	0		1.24	15	1.61	6.0	0.462 A	1 S	0.04	25
26		0.062	0	0		1.42	17	2.09		0.470	1	0.04	26
27		0.050	0	0		1.27	15	1.65		0.519	1	0.04	27
28		0.053	0	0		1.06	13	1.19		0.492	1	0.04	28
29		0.055	0	0		1.14	10	0.98		0.460	1	0.04	29
30		0.083	0	0		1.16	9	0.90	6.0	0.467	1 S	0.04	30
31						1.14	7	0.69					31
TOTAL		1.007		0		15.122		14.57		19.485		4.03	TOTAL
MEAN		0.033		0		0.488		0.47		0.649		0.13	MEAN

ALBERTA

MARMOT CREEK (MAIN STEM) - STATION NO. 05BF016

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.572	1	0.05		0.415	1	0.04	6.0	0.092	2 S	0.02	1
2		0.602	1	0.05		0.386	1	0.03		0.090	2	0.02	2
3		0.571	1	0.05		0.363	1	0.03		0.086	2	0.01	3
4		0.547	1	0.05	5.0	0.337	1 S	0.03		0.085	2	0.01	4
5		0.524	1	0.05		0.314	1	0.03		0.082	2	0.01	5
6		0.482	1	0.04		0.285	1	0.02		0.077	2	0.01	6
7		0.446	1	0.04		0.274	2	0.05		0.072	2	0.01	7
8	4.0	0.387	1 S	0.03		0.256	3	0.07	7.0	0.067	2 S	0.01	8
9		0.343	1	0.03		0.233	2	0.04	7.5	0.066	2 S	0.01	9
10		0.319	1	0.03		0.217	2	0.04		0.069	2	0.01	10
11		0.288	1	0.02	8.3	0.202	2 S	0.03		0.064	2	0.01	11
12		0.265	1	0.02		0.198	2	0.03		0.063	2	0.01	12
13		0.269	1	0.02		0.186	2	0.03		0.062	1	0.01	13
14		0.354	2	0.06		0.177	2	0.03		0.061	1	0.01	14
15	4.5	0.378	2 S	0.07		0.166	1	0.01	6.5	0.059	1 S	0.01	15
16		0.442	2	0.08		0.161	1	0.01		0.056	1	0	16
17		0.466	3	0.12		0.156	1	0.01		0.055	1	0	17
18		0.462	3	0.12	8.0	0.147	1 S	0.01		0.053	1	0	18
19		0.439	2	0.08		0.141	1	0.01		0.052	1	0	19
20		0.400	2	0.07		0.138	1	0.01		0.052	1	0	20
21	5.0	0.376	1 S	0.03		0.135	1	0.01		0.051	1	0	21
22		0.353	1	0.03		0.128	1	0.01	4.5	0.050	1 S	0	22
23		0.369	1	0.03		0.123	1	0.01		0.048	1	0	23
24		0.380	1	0.03		0.118	1	0.01		0.048	1	0	24
25		0.417	2	0.07	9.0	0.114	1 S	0.01		0.048	1	0	25
26		0.429	2	0.07		0.110	1	0.01		0.048	1	0	26
27		0.420	2	0.07		0.104	1	0.01		0.048	1	0	27
28	5.5	0.399	1 S	0.03		0.097	1	0.01	5.0	0.048	1 S	0	28
29		0.442	1	0.04		0.094	2	0.02		0.047	1	0	29
30		0.426	1	0.04		0.101	2	0.02		0.046	1	0	30
31		0.429	1	0.04		0.094	2	0.02					31
TOTAL		12.996		1.56		5.970		0.70		1.885		0.17	TOTAL
MEAN		0.419		0.05		0.193		0.02		0.061		0.01	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.045	1	0		0.033				0.021			1
2		0.046	1	0		0.033				0.021			2
3		0.044	1	0		0.032				0.021			3
4		0.043	1	0		0.031				0.020			4
5		0.040	1	0		0.030				0.020			5
6		0.042	1	0		0.029				0.021			6
7		0.042	1	0		0.029				0.021			7
8		0.041	1	0		0.029				0.021			8
9	2.0	0.039	1 S	0		0.029				0.021	A		9
10		0.038	1	0		0.028				0.021	E		10
11		0.038	1	0		0.028				0.021	E		11
12		0.037	1	0		0.029				0.021	E		12
13		0.036	1	0		0.028				0.021	E		13
14		0.037	1	0		0.028				0.021	E		14
15		0.037	1	0		0.028				0.021	E		15
16		0.037	1	0		0.027				0.021	E		16
17		0.036	1	0		0.025				0.021	E		17
18		0.035	1	0		0.025				0.020	E		18
19		0.035	1	0		0.025				0.020	E		19
20		0.033	1	0		0.026				0.020	E		20
21		0.027	1	0		0.026				0.020	E		21
22		0.027	1	0		0.025				0.020	E		22
23		0.028	1	0		0.024				0.019	E		23
24		0.031	1	0		0.019				0.018	E		24
25		0.032	2	0.01		0.019				0.018	E		25
26		0.036	2	0.01		0.021				0.018	E		26
27	4.0	0.035	2 S	0.01		0.023				0.015	E		27
28		0.035	2	0.01		0.021				0.014	E		28
29		0.035	2	0.01		0.021				0.014	E		29
30		0.033	2	0.01		0.020				0.014	E		30
31		0.033	2	0.01									31
TOTAL		1.133		0.07		0.791				0.603			TOTAL
MEAN		0.036		0		0.026				0.019			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 38 ON MAY 17
MINIMUM DAILY 0 ON APR 01

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 2.09 ON MAY 26
MINIMUM DAILY 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 01 N
LONG 115 09 08 W
DRAINAGE AREA 9.40 km^2
NATURAL FLOW

A - MANUAL GAUGE

E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NIDDLE FORK CREEK NEAR SEEBE - STATION NO. 05BF017

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.008				0.006				0.004			1
2		0.008				0.006				0.004			2
3		0.008				0.006				0.004			3
4		0.008				0.006				0.004			4
5		0.008				0.006				0.004			5
6		0.008				0.005				0.004			6
7		0.008				0.005				0.004			7
8		0.008				0.005				0.004			8
9		0.008				0.005				0.004			9
10		0.007				0.005				0.004			10
11		0.007				0.005				0.004			11
12		0.007				0.005				0.004			12
13		0.007				0.005				0.004			13
14		0.007				0.005				0.005			14
15		0.007				0.004				0.005			15
16		0.007				0.004				0.005			16
17		0.007				0.004				0.005			17
18		0.007				0.004				0.005			18
19		0.007				0.004				0.005			19
20		0.006				0.004				0.005			20
21		0.006				0.004				0.005			21
22		0.006				0.004				0.005			22
23		0.006				0.004				0.005			23
24		0.006				0.004				0.005			24
25		0.006				0.004				0.005			25
26		0.006				0.004				0.005			26
27		0.006				0.004				0.005			27
28		0.006				0.004				0.005			28
29		0.006								0.005			29
30		0.006								0.005			30
31		0.006								0.005			31
TOTAL		0.214				0.131				0.142			TOTAL
MEAN		0.007				0.005				0.005			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.005	0	0		0.046	1	0		0.246 E	10	0.21	1
2		0.005	0	0		0.031	1	0	4.0	0.294 A	6 S	0.15	2
3		0.005	0	0		0.033	1	0	4.0	0.331	4 S	0.11	3
4		0.005	0	0		0.032	1	0		0.343	5	0.15	4
5		0.005	0	0		0.028	1	0		0.335	5	0.14	5
6		0.005	0	0		0.025	1	0		0.312	5	0.13	6
7		0.005	0	0		0.022	1	0		0.269	4	0.09	7
8		0.005	0	0		0.021	1	0		0.235	4	0.08	8
9		0.005	0	0		0.020	1	0	4.0	0.201	3 S	0.05	9
10		0.005	0	0		0.020	1	0		0.174	3	0.05	10
11		0.005	0	0		0.020	1	0		0.158	2	0.03	11
12		0.005	0	0		0.020	1	0		0.141	2	0.02	12
13		0.005	0	0		0.024	1	0		0.151	2	0.03	13
14		0.005	0	0		0.037	1	0		0.156	1	0.01	14
15		0.005	0	0		0.044	1	0		0.168	1	0.01	15
16		0.006	0	0		0.040	1	0	4.0	0.179	1 S	0.02	16
17		0.006	0	0	2.0	0.038	1 S	0		0.176	1	0.02	17
18		0.007	0	0		0.063	1	0.01		0.170	1	0.01	18
19		0.011	1	0		0.105	2	0.02		0.163	1	0.01	19
20		0.015	1	0	2.0	0.127	4 S	0.04		0.158	1	0.01	20
21		0.015	1	0		0.265	12	0.27		0.157	1	0.01	21
22		0.013	1	0	2.0	0.327	22 S	0.62		0.155	1	0.01	22
23		0.018	1	0		0.383	25	0.83	5.0	0.156	1 S	0.01	23
24		0.020	1	0		0.427	25	0.92		0.158	1	0.01	24
25		0.016	1	0		0.466	28	1.13	6.5	0.162	2 S	0.03	25
26		0.014	1	0	2.0	0.531	29 S	1.33		0.173	2	0.03	26
27		0.014	1	0		0.402	25	0.87		0.193	2	0.03	27
28		0.015	1	0		0.274	21	0.50		0.187	2	0.03	28
29		0.016	1	0		0.231	18	0.36		0.169	2	0.03	29
30		0.029	1	0		0.217 A	15	0.28	5.5	0.166	2 S	0.03	30
31						0.262 E	12	0.27					31
TOTAL		0.290		0		4.581		7.45		6.036		1.55	TOTAL
MEAN		0.010		0		0.148		0.24		0.201		0.05	MEAN

ALBERTA

MIDDLE FORK CREEK NEAR SEEBE - STATION NO. 05BF017

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.209	2	0.04		0.162	2	0.03	7.5	0.028	2 S	0	1
2		0.236	2	0.04		0.151	2	0.03		0.028	2	0	2
3		0.228	2	0.04		0.142	2	0.02		0.026	2	0	3
4		0.224	3	0.06	5.5	0.128	2 S	0.02		0.026	2	0	4
5		0.219	3	0.06		0.114	2	0.02		0.025	1	0	5
6		0.202	3	0.05		0.100	2	0.02		0.024	1	0	6
7		0.181	3	0.05		0.095	2	0.02		0.023	1	0	7
8	5.0	0.155	3 S	0.04		0.084	2	0.01	6.5	0.022	1 S	0	8
9		0.133	3	0.03		0.077	2	0.01	7.0	0.022	2 S	0	9
10		0.117	3	0.03		0.070	2	0.01		0.021	2	0	10
11		0.104	2	0.02	8.0	0.064	2 S	0.01		0.020	2	0	11
12		0.095	2	0.02		0.062	2	0.01		0.019	2	0	12
13		0.096	2	0.02		0.058	2	0.01		0.019	1	0	13
14		0.120	2	0.02		0.054	2	0.01		0.018	1	0	14
15	5.5	0.127	2 S	0.02		0.053	2	0.01	6.0	0.018	1 S	0	15
16		0.152	2	0.03		0.054	2	0.01		0.017	1	0	16
17		0.175	2	0.03		0.046	2	0.01		0.017	1	0	17
18		0.187	2	0.03	8.0	0.043	2 S	0.01		0.016	1	0	18
19		0.178	2	0.03		0.042	2	0.01		0.016	1	0	19
20		0.161	2	0.03		0.043	2	0.01		0.016	1	0	20
21	6.0	0.151	2 S	0.03		0.042	2	0.01		0.016	1	0	21
22		0.142	2	0.02		0.039	1	0	4.5	0.015	1 S	0	22
23		0.146	2	0.03		0.037	1	0		0.015	1	0	23
24		0.153	2	0.03		0.035	1	0		0.015	1	0	24
25		0.170	2	0.03	8.0	0.033	1 S	0		0.014	1	0	25
26		0.177	2	0.03		0.032	1	0		0.014	2	0	26
27		0.176	2	0.03		0.030	1	0		0.014	2	0	27
28	6.0	0.166	2 S	0.03		0.029	1	0	2.0	0.014	2 S	0	28
29		0.171	2	0.03		0.028	2	0		0.014	2	0	29
30		0.164	2	0.03		0.030	2	0.01		0.014	2	0	30
31		0.167	2	0.03		0.028	2	0					31
TOTAL		5.082		1.01		2.005		0.31		0.566		0	TOTAL
MEAN		0.164		0.03		0.065		0.01		0.019		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.014	2	0		0.010				0.006			1
2		0.014	2	0		0.010				0.006			2
3		0.013	2	0		0.009				0.006			3
4		0.012	2	0		0.009				0.006			4
5		0.012	2	0		0.008							5
6		0.012	2	0		0.009				0.006			6
7		0.012	2	0		0.008				0.006			7
8		0.012	1	0		0.008				0.005			8
9	2.5	0.011	1 S	0		0.008				0.005			9
10		0.011	1	0		0.008				0.005			10
11		0.011	1	0		0.008				0.005			11
12		0.011	1	0		0.008				0.005			12
13		0.011	1	0		0.008				0.005			13
14		0.011	1	0		0.008				0.005			14
15		0.011	1	0		0.008				0.005			15
16		0.011	1	0		0.008				0.005			16
17		0.011	1	0		0.007				0.005			17
18		0.010	1	0		0.008				0.005			18
19		0.010	1	0		0.007				0.005			19
20		0.010	1	0		0.008				0.005			20
21		0.010	1	0		0.007				0.005			21
22		0.010	1	0		0.007				0.005			22
23		0.010	1	0		0.007				0.005			23
24		0.010	1	0		0.007				0.004			24
25		0.010	1	0		0.006				0.004			25
26		0.010	1	0		0.006				0.004			26
27	2.5	0.010	1 S	0		0.007				0.004			27
28		0.010	1	0		0.006				0.004			28
29		0.010	1	0		0.006				0.004			29
30		0.009	1	0		0.006				0.004			30
31		0.009	1	0									31
TOTAL		0.338		0		0.230				0.158			TOTAL
MEAN		0.011		0		0.008				0.005			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	29 ON MAY 26	MAXIMUM DAILY	1.33 ON MAY 26
MINIMUM DAILY	0 ON APR 01	MINIMUM DAILY	0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 34 N
LONG 115 10 16 W
DRAINAGE AREA 2.85 km^2
NATURAL FLOW

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA031

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										7.05 B	196	119	1
2										6.51 B	195	110	2
3										5.97 B	194	100	3
4										5.38 B	193	89.7	4
5										5.10 B	192	84.6	5
6										4.81 B	190	79.0	6
7										4.76	188	77.3	7
8										4.56	187	73.7	8
9										3.99	185	63.8	9
10										3.54	183	56.0	10
11									3.0	3.20	207 S	57.2	11
12										5.52	433	207	12
13										10.6	781	715	13
14									4.0	12.5	839 S	906	14
15										13.9	842	1 010	15
16										15.0	870	1 130	16
17									4.0	20.1	1 270 S	2 210	17
18										22.7	3 210	6 300	18
19									3.0	20.5	2 870 S	5 080	19
20									0.5	18.3	1 660 S	2 620	20
21										18.1	1 460	2 280	21
22									0.1	15.6	1 450 S	1 950	22
23										17.6	1 730	2 630	23
24									5.0	19.3	1 980 S	3 300	24
25						6.51 B				19.3	2 010	3 350	25
26						6.17 B			5.5	19.6	1 970 S	3 340	26
27						5.66 B				20.0	1 890	3 270	27
28						8.50 B			4.0	21.3	1 920 S	3 530	28
29										23.1	2 100	4 190	29
30									7.0	25.8	2 840 S	6 330	30
31										26.6	2 630	6 040	31
TOTAL										420.29		61 298.3	TOTAL
MEAN										13.6		1 980	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	8.0	27.8	2 610 S	6 270	14.0	6.51	321 S	181		26.4	1 970	4 490	1
2		27.0	2 490	5 810		6.37	367	202	20.0	25.9	1 280 S	2 860	2
3	6.0	23.7	2 010 S	4 120	14.0	13.1	762 S	862		24.0	683	1 420	3
4		21.3	1 860	3 420		21.7	1 200	2 250	18.0	24.1	1 030 S	2 140	4
5	4.0	17.8	1 450 S	2 230	14.0	24.0	1 550 S	3 210		24.2	1 240	2 590	5
6		15.5	1 220	1 630		26.1	2 960	6 670	16.5	24.4	1 250 S	2 640	6
7	6.0	15.5	1 130 S	1 510	8.0	28.6	7 460 S	18 400		24.6	1 150	2 440	7
8		16.0	1 040	1 440		29.4	6 350	16 100	17.0	25.5	840 S	1 850	8
9	6.5	16.0	986 S	1 360	11.0	24.8	4 650 S	9 960		27.8	835	2 010	9
10		15.6	981	1 320		25.9	2 910	6 510	16.5	28.9	878 S	2 190	10
11	6.5	15.5	1 040 S	1 390	12.0	25.3	2 200 S	4 810		28.9	868	2 170	11
12		16.9	1 350	1 970	9.0	25.5	2 130 S	4 690	16.0	30.0	923 S	2 390	12
13	3.0	17.7	1 580 S	2 420	13.0	24.7	1 820 S	3 880		31.1	1 060	2 850	13
14		16.9	1 550	2 260		25.0	1 600	3 460		32.8	1 170	3 320	14
15	10.0	16.3	1 600 S	2 250	11.0	26.1	1 500 S	3 380		30.9	1 170	3 120	15
16		15.7	1 480	2 010		30.0	1 740	4 510	15.5	41.1	2 780 S	9 870	16
17	12.0	15.7	1 240 S	1 680	8.0	31.7	5 850 S	16 000		47.3	3 730	15 200	17
18		16.0	1 210	1 670		48.4	7 110	29 700	14.0	34.5	2 610 S	7 780	18
19	8.0	16.0	1 230 S	1 700	16.3	49.0	6 330 S	26 800		28.1	1 980	4 810	19
20		16.0	1 100	1 520		35.7	3 300	10 200	16.0	26.8	1 490 S	3 450	20
21	5.0	16.4	961 S	1 360	17.0	36.5	2 780 S	8 680		25.8	1 320	2 940	21
22		14.4	950	1 180		42.2	3 040	11 100		24.4	1 200	2 530	22
23	14.0	10.8	862 S	804	19.0	37.1	2 630 S	8 430	16.5	24.6	1 100 S	2 340	23
24		8.86	646	495		42.2	5 640	20 600		23.9	1 200	2 480	24
25	14.0	8.21	358 S	254	19.5	43.9	7 140 S	27 100	17.0	22.8	1 550 S	3 050	25
26		7.59	253	166		41.1	4 500	16 000		22.0	1 530	2 910	26
27	12.0	7.22	266 S	166	19.5	34.3	2 210 S	6 550	20.0	22.5	1 140 S	2 220	27
28		6.82	523 S	308		30.0	1 400	3 630		22.4	994	1 920	28
29	12.0	7.05	235 S	143	18.5	30.9	1 490 S	3 980	16.0	20.8	1 050 S	1 890	29
30		6.71	235	136		29.4	1 700	4 320		19.9	1 070	1 840	30
31					18.5	27.4	2 000 S	4 730					31
TOTAL		452.96		52 992		922.88		286 855		816.4		103 710	TOTAL
MEAN		15.1		1 770		29.8		9 250		27.2		3 460	MEAN

ALBERTA

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA031

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		20.2	1 080	1 880	22.0	20.1	1 450 S	2 520		16.7	353	509	1
2		19.8	1 070	1 790		19.0	1 140	1 870	16.5	16.4	334 S	473	2
3	24.0	19.0	1 060 S	1 740	22.0	18.9	715 S	1 170		16.5	334	476	3
4		22.3	1 120	2 160		19.1	447	738	15.5	17.0	421 S	618	4
5	21.0	22.5	853 S	1 660	22.0	19.1	382 S	630		17.4	492	740	5
6		22.3	769	1 480		18.8	380	617		17.2	488	725	6
7		23.6	1 720	3 510		18.3	386	610		16.9	493	720	7
8	14.2	16.9	2 160 S	3 150		18.0	379	589	20.5	16.7	504 S	727	8
9		16.3	1 210	1 700	23.5	17.1	415 S	613		16.1	477	664	9
10		17.6	1 070	1 630		17.4	450	677	20.5	15.5	426 S	570	10
11		18.6	997	1 600	23.5	17.3	421 S	629		15.1	399	521	11
12	24.0	18.8	823 S	1 340		16.9	418	610	16.0	15.2	363 S	477	12
13	20.0	21.9	4 350 S	8 230	22.0	16.5	395 S	563		15.3	308	407	13
14	18.0	22.5	2 130 S	4 140		16.1	389	541	18.0	15.4	265 S	353	14
15	18.0	21.0	1 030 S	1 870	24.0	16.1	464 S	645		15.7	227	308	15
16	21.5	20.5	809 S	1 430		16.1	536	746	16.5	16.0	224 S	310	16
17		20.9	784	1 420	23.5	16.3	456 S	642		16.1	259	360	17
18	20.5	21.4	755 S	1 400		17.0	358	520		15.9	294	404	18
19		21.8	723	1 360	23.0	16.8	392 S	569	17.0	15.8	332 S	453	19
20	23.0	22.3	724 S	1 390	24.5	16.7	493 S	711		15.9	376	517	20
21		21.6	712	1 330	22.5	16.6	428 S	614	12.0	16.3	421 S	593	21
22	23.0	22.5	748 S	1 450		15.9	281	386		16.7	455	657	22
23		23.9	1 030	2 130	22.5	15.2	222 S	292	12.0	17.1	456 S	674	23
24	19.5	21.7	925 S	1 730		15.7	226	307		16.6	410	588	24
25		22.9	996	1 970	22.5	16.2	228 S	319	11.0	16.9	375 S	548	25
26	19.5	22.4	971 S	1 880		16.1	217	302		16.9	359	524	26
27		22.6	993	1 940	22.0	15.8	211 S	288	7.0	16.7	362 S	522	27
28	22.5	24.2	1 290 S	2 700		15.8	201	274		16.4	378	536	28
29	21.0	22.1	1 090 S	2 080	22.0	16.0	286 S	395	11.0	17.0	425 S	624	29
30	20.0	21.7	1 640 S	3 070		16.9	352	514	11.0	16.6	721 S	1 030	30
31		22.1	1 710	3 270	17.0	17.2	362 S	538					31
TOTAL		657.5		68 430		529.0		20 439		490.0		16 628	TOTAL
MEAN		21.2		2 210		17.1		659		16.3		554	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		15.2	574	754									1
2	9.5	12.8	259 S	277									2
3		8.61	189	141									3
4		5.75	159	79.0									4
5	6.8	4.28	134 S	49.6									5
6		3.48	115	34.6									6
7		2.97	97	24.9									7
8	10.0	2.55	73 S	16.1									8
9		2.24	54	10.5									9
10		2.12	44	8.06									10
11	4.8	3.11	283 S	76.0									11
12		3.23	381	106									12
13	5.5	3.31	339 S	96.9									13
14		3.03	275	72.0									14
15		2.69	208	48.3									15
16		2.46	149	31.7									16
17		2.35	119	24.2									17
18		2.15 E	95	17.6									18
19		1.95 E	85	14.3									19
20		1.95 E	81	13.6									20
21		1.93 E	79	13.2									21
22		1.93 A	74	12.3									22
23		1.95 E	68	11.5									23
24		2.01 E	63	10.9									24
25		2.07 E	57	10.2									25
26		2.12 E	52	9.52									26
27		2.07 E	47	8.41									27
28		2.01 E	44	7.64									28
29		1.95 A	41	6.91									29
30		1.93 E	40	6.67									30
31		1.90 E	40	6.57									31
TOTAL		107.70		1 999.18									TOTAL
MEAN		3.47		64.5									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 7 460 ON MAY 07

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 29 700 ON MAY 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 59 05 N
LONG 110 28 15 W
DRAINAGE AREA 6 810 km^2
REGULATED FLOW SINCE 1917
INTERNATIONAL GAUGING STATION

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY UNITED STATES GEOLOGICAL SURVEY

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA031

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAR 19	14:30	20.7		3.0	2 950	R	11	18	24	33	41	52	73	90	95	98		BNW
MAR 26	12:40	19.6	H	5.5	1 740	K	22	30	40	49	60	69	88	97	99	100		BNW
APR 07	13:30	15.7		6.0	1 070	R	14	20	27	36	45	58	83	96	99	100		BNW
APR 13	09:00	16.3	H	3.0	1 290	K	6	10	14	20	25	34	54	80	91	96		BNW
MAY 07	07:10	28.6		8.0	6 810	K	45	56	67	76	80	86	91	98	100			BNW
MAY 19	14:30	46.3		16.0	6 120	R	18	28	39	51	63	79	93	99	100			BNW
MAY 23	14:35	37.1	H	19.0	2 320	K	16	26	35	45	60	78	95	99	100			BNW
MAY 29	14:25	30.9	H	18.5	1 450	K	15	24	33	44	61	82	96	99	100			BNW
JUN 06	09:25	24.4	H	16.5	1 170	K	13	18	23	32	43	65	84	94	98	99		BNW
JUN 12	12:30	30.0	H	16.0	891	K	15	20	27	36	48	66	86	96	98	99		BNW
JUN 25	12:40	22.8	H	17.0	1 560	K	7	11	15	19	26	36	50	73	88	95		BNW
JUL 13	16:45	22.3		20.0	5 780	K	55	64	74	85	89	92	95	98	99	100		BNW
JUL 22	21:45	22.5	H	23.0	638	K	13	18	24	35	47	64	82	95	98	99		BNW
JUL 29	10:30	22.1		21.0	961	R	12	16	20	25	33	44	72	92	97	99		BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

MILK RIVER AT MILK RIVER - STATION NO. 11AA005

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2.39 B				1.04 B				3.81 B	80	26.3	1
2		2.26 B				0.951 B				3.40 B	64	18.8	2
3		2.14 B				0.867 B				3.11 B	58	15.6	3
4		1.97 B				0.809 B			0.3	2.83 B	58 S	14.2	4
5		1.80 B				0.750 B				2.61 B	36	8.12	5
6		1.68 B				0.679 B				2.40 B	84	17.4	6
7		1.54 B				0.640 B				2.40 B	243	50.4	7
8		1.43 B				0.607 B				2.61 B	565	127	8
9		1.32 B				0.568 B				3.61 B	747	233	9
10		1.24 B				0.549 B				5.41 B	822	384	10
11		1.14 B				0.542 B			2.0	7.91 B	831 S	568	11
12		1.07 B				0.542 B				11.6	787	789	12
13		1.04 B				0.529 B				12.0	798	827	13
14		1.02 B				0.549 B				13.9	820	985	14
15		1.03 B				0.562 B				16.4	866	1 230	15
16		1.05 B				0.601 B				16.6	897	1 290	16
17		1.02 B				0.815 B				18.0	903	1 400	17
18		0.982 B				2.40 B				16.8	873	1 270	18
19		0.967 B				5.01 B				14.7 B	825	1 050	19
20		0.989 B				6.69 B				14.8 B	761	973	20
21		1.05 B				6.80 B				14.1 B	697	849	21
22		1.20 B				6.41 B				15.4 B	634	844	22
23		1.45 B				6.10 B				15.6 B	570	768	23
24		1.76 B				5.67 B			7.0	17.0	489 S	718	24
25		1.87 B				5.41 B				17.3	473	707	25
26		1.78 B				5.01 B				18.8	501	814	26
27		1.60 B				4.60 B				21.0	518	940	27
28		1.45 B				4.41 B				22.3	530	1 020	28
29		1.33 B								23.9	550	1 140	29
30		1.24 B								25.4	575	1 260	30
31		1.14 B								25.7	530	1 180	31
TOTAL		43.948				70.110				391.40		21 516.82	TOTAL
MEAN		1.42				2.50				12.6		694	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		22.9	410	811		17.2	254	377		24.4	173	365	1
2		21.4	304	562		18.2	243	382	12.0	24.0	164 S	340	2
3		17.3	124	185		17.5	249	376		24.0	182	377	3
4		16.2	98	137		17.5	245	370	14.0	23.2	137 S	275	4
5		17.1	117	173		18.6	255	410		22.8	105	207	5
6		17.4	106	159		19.1	249	411		23.3	101	203	6
7		17.1	111	164		19.0	259	425		23.4	100	202	7
8		17.1	113	167		20.4	279	492	17.0	22.9	97 S	192	8
9		17.0	109	160		22.0	314	597		23.0	118	234	9
10		16.9	107	156		21.6	280	523	15.0	22.5	139 S	270	10
11		16.8	115	167		19.8	260	445		22.3	151	291	11
12		16.7	115	166		18.8	254	413		22.1	164	313	12
13		16.8	116	168	9.0	18.0	246 S	383		24.3	258	542	13
14		16.5	115	164		17.4	242	364		32.4	516	1 440	14
15	6.0	16.1	109 S	152		17.7	235	359		49.6	681	2 920	15
16		15.5	94	126		30.3	506	1 320		33.0	577	1 650	16
17		14.9	94	121		57.6	782	3 890		26.1	462	1 040	17
18		14.7	85	108		39.0	766	2 580	13.0	24.1	361 S	752	18
19		11.5	42	41.7		30.7	729	1 930		22.6	297	580	19
20		7.73	31	20.7		30.9	680	1 820		22.2	257	493	20
21		6.56	34	19.3	16.0	29.9	623 S	1 610		21.7	208	390	21
22		6.33	32	17.5		36.6	674	2 130	15.0	21.2	165 S	302	22
23		5.99	33	17.1		42.9	672	2 490		21.2	177	324	23
24		5.81	28	14.1		38.8	575	1 930	12.0	21.2	247 S	452	24
25		5.50	27	12.8		32.1	484	1 340		21.0	245	445	25
26		5.86	30	15.2		28.8	386	960		20.8	208	374	26
27		5.53	29	13.9		30.1	334	869		20.7	181	324	27
28		5.24	31	14.0	15.0	28.6	332 S	820		21.3	189	348	28
29		5.17	84	37.5		26.7	294	678	18.0	21.0	185 S	336	29
30		12.2	260	274		26.1	256	577		20.1	154	267	30
31						25.5	206	458					31
TOTAL		391.82		4 343.8		817.4		31 725		722.4		16 248	TOTAL
MEAN		13.1		145		26.4		1 020		24.1		542	MEAN

MILK RIVER AT MILK RIVER - STATION NO. 11AA005

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		20.6	165	294		18.5	122	195		17.1	46	68.0	1
2		20.5	170	301		18.4	120	191	15.0	17.0	47 S	69.0	2
3		20.4	176	310	20.0	18.4	119 S	189		16.9	49	71.5	3
4		20.2	184	321		18.3	119	188		17.1	50	73.9	4
5		20.0	192	332		18.2	117	184		17.1	50	73.9	5
6		19.9	201	346		17.9	115	178		17.1	49	72.4	6
7		19.7	205	349		17.9	113	175		16.9	49	71.5	7
8	12.0	19.3	197 S	329		18.2	112	176	21.0	16.9	50 S	73.0	8
9	14.0	19.5	153 S	258		18.4	109	173		16.9	54	78.8	9
10		19.5	153	258		18.3	109	172	17.0	16.7	60 S	86.6	10
11		19.5	159	268		18.2	106	167		16.7	71	102	11
12		19.5	161	271		18.1	104	163		16.8	77	112	12
13		19.4	161	270		18.1	102	160		16.8	81	118	13
14	16.0	19.4	165 S	277		18.2	101	159	17.0	16.8	82 S	119	14
15		19.6	168	284		18.5	102	163		16.7	82	118	15
16		19.7	169	288		18.6	99	159		16.9	82	120	16
17		20.1	170	295		18.5	98	157		16.7	82	118	17
18		20.0	185	320		18.5	95	152		17.0	83	122	18
19		20.1	204	354	19.0	17.8	92 S	141		17.4	89	134	19
20	21.0	19.7	197 S	335		17.0	86	126		17.5	95	144	20
21		19.5	194	327		17.3	80	120	13.0	17.3	98 S	146	21
22		19.8	192	328		17.5	73	110		17.3	93	139	22
23	20.0	19.8	191 S	327		17.4	67	101	12.0	17.3	88 S	132	23
24		20.3	195	342		17.2	60	89.2		17.2	88	131	24
25		20.9	200	361		17.1	54	79.8		17.1	88	130	25
26		21.0	184	334		17.0	47	69.0		17.1	88	130	26
27		19.5	134	226	18.0	17.1	40 S	59.1		17.3	88	132	27
28		20.6	127	226		17.2	43	63.9	12.0	16.2	86 S	120	28
29	20.0	19.7	126 S	214		17.0	49	72.0		13.2	77	87.8	29
30		18.9	125	204		17.1	48	70.9		8.73	64	48.3	30
31		18.7	124	200	17.0	17.1	48 S	70.9					31
TOTAL		615.3		9 149		553.0		4 273.8		497.73		3 141.7	TOTAL
MEAN		19.8		295		17.8		138		16.6		105	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		5.20	50	22.5		1.60	8	1.11		0.944 B			1
2		3.50	39	11.8	8.0	1.63	7 S	0.99		0.921 B			2
3		2.60	28	6.29		1.61				0.500 B			3
4		2.18	21	3.96		1.59				0.893 B			4
5	7.0	1.90	14 S	2.30		1.56				0.893 B			5
6		1.73	12	1.79		1.52				0.880 B			6
7	9.0	1.68	11 S	1.60		1.58				0.867 B			7
8		1.64	11	1.56		1.59				0.848 B			8
9		1.55	12	1.61		1.60				0.841 B			9
10		1.48	12	1.53		1.57				0.861 B			10
11		1.60	14	1.94		1.56				0.861 B			11
12		1.62	17	2.38		1.52				0.841 B			12
13	2.5	1.59	20 S	2.75		1.51				0.822 B			13
14		1.61	20	2.78		1.55				0.770 B			14
15		1.62	19	2.66		1.53				0.731 B			15
16		1.62	18	2.52		1.55				0.672 B			16
17		1.65	17	2.42		1.61				0.620 B			17
18		1.64	17	2.41		1.64				0.542 B			18
19		1.67	16	2.31		1.32 B				0.483 B			19
20		1.62	15	2.10		1.19 B				0.439 B			20
21		1.65	15	2.14		1.11 B				0.389 B			21
22		1.63	14	1.97		1.06 B				0.351 B			22
23		1.63	13	1.83		1.02 B				0.312 B			23
24		1.63	12	1.69		1.00 B				0.269 B			24
25		1.68	12	1.74		0.982 B				0.231 B			25
26		1.72	11	1.63		0.959 B				0.212 B			26
27		1.70	10	1.47		0.951 B				0.180 B			27
28		1.68	10	1.45		0.951 B				0.169 B			28
29		1.69	10	1.46		0.959 B				0.151 B			29
30		1.67	9	1.30		0.959 B				0.140 B			30
31		1.63	8	1.13						0.129 B			31
TOTAL		58.01		97.02		40.781				18.162			TOTAL
MEAN		1.87		3.13		1.36				0.586			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 903 ON MAR 17
MINIMUM DAILY 7 ON NOV 02

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 3 890 ON MAY 17
MINIMUM DAILY 0.99 ON NOV 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 37 N
LONG 112 04 44 W
DRAINAGE AREA 2 720 km^2
REGULATED FLOW SINCE 1916
INTERNATIONAL GAUGING STATION

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY UNITED STATES GEOLOGICAL SURVEY

MILK RIVER AT MILK RIVER - STATION NO. 11AA005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAR 11	12:00	7.92	2.0	801 R	9	21	33	48	65	79	91	97	99	99		BNW
MAR 24	12:30	16.5	7.0	478 R	13	18	27	38	50	65	81	92	95	97		BNW
MAY 21	09:20	29.9 H	16.0	801 R	9	16	24	32	41	56	78	94	98	99		BNW

H - DAILY MEAN DISCHARGE

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY - STATION NO. 11AA001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.591 B	17	0.87	1
2										0.591 B	14	0.71	2
3										0.604 B	11	0.57	3
4									1.0	0.657 B	10 S	0.57	4
5										0.774 B	27	1.81	5
6										4.13 B	79	28.2	6
7										4.38 B	74	28.0	7
8										6.42 B	101	56.0	8
9										6.90 B	98	58.4	9
10										8.21 B	86	61.0	10
11										9.78 B	103	87.0	11
12									3.0	10.0	93 S	80.4	12
13										11.6	101	101	13
14										13.7	109	129	14
15										14.3	115	142	15
16										14.4	121	151	16
17										15.0	127	165	17
18										15.2	133	175	18
19										15.1	139	181	19
20										15.0	145	188	20
21										14.9	151	194	21
22										15.1	154	201	22
23						1.00 A			5.5	15.3	159 S	210	23
24						0.838				15.5	153	205	24
25						0.713				15.9	141	194	25
26						0.644 B				17.1	123	182	26
27						0.598 B				17.3	106	158	27
28						0.591 B				18.1	91	142	28
29										20.8	74	133	29
30										18.8	61	99.1	30
31										17.2	49	72.8	31
TOTAL										353.337		3 426.43	TOTAL
MEAN										11.4		111	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		15.7	39	52.9		15.7	68	92.2		18.6	61	98.0	1
2		12.0	29	30.1		15.0	67	86.8		18.8	60	97.5	2
3		11.8	24	24.5		14.6	61	76.9	13.0	18.8	58 S	94.2	3
4		13.5	23	26.8		14.9	55	70.8		18.6	53	85.2	4
5		14.4	21	26.1		15.3	49	64.8	12.0	19.2	49 S	81.3	5
6		14.5	21	26.3		15.2	49	64.4		19.8	48	82.1	6
7		14.3	22	27.2		15.2	47	61.7		19.5	47	79.2	7
8		14.3	22	27.2		16.1	44	61.2		19.7	46	78.3	8
9		14.5	21	26.3		15.9	41	56.3	13.0	19.7	46 S	78.3	9
10		14.2	21	25.8		14.9	39	50.2		19.6	43	72.8	10
11		14.4	21	26.1		14.6	39	49.2	12.0	19.3	43 S	71.7	11
12		14.3	24	29.7		14.4	38	47.3		19.7	50	85.1	12
13		13.9	24	28.8	10.0	14.2	37 S	45.4		23.0	79 E	157	13
14		13.3	26	29.9		14.1	39	47.5		29.1	105 E	264	14
15	5.5	13.0	29 S	32.6		17.9	52	80.4		18.0	77 E	120	15
16		12.3	31	32.9		24.0	45	93.3	12.0	16.8	64 S	92.9	16
17		10.8	29	27.1		18.2	65	102		18.7	59	95.3	17
18		7.27	24	15.1		16.7	70	101		18.5	57	91.1	18
19		4.32	22	8.21		17.0	71	104		18.8	54	87.7	19
20		4.08	16	5.64		16.0	67	92.6		18.9	52	84.9	20
21		3.82	11	3.63	18.0	16.4	68 S	96.4		18.7	50	80.8	21
22		3.35	8	2.32		21.9	65	123		18.7	47	75.9	22
23		3.30	7	2.00		20.9	67	121	13.0	18.8	45 S	73.1	23
24		3.52	10	3.04		17.0	64	94.0		18.8	42	68.2	24
25		3.04	13	3.41		15.7	66	89.5	16.0	18.8	40 S	65.0	25
26		2.99	14	3.62	13.0	16.6	68 S	97.5		19.0	42	68.9	26
27		3.08	19	5.06		16.9	67	97.8		19.3	46	76.7	27
28		4.34	36	13.5		17.7	66	101		20.0	49	84.7	28
29		11.6	58	58.1		18.6	65	104		19.3	53	88.4	29
30		14.7	67	85.1		18.9	63	103	16.0	19.5	56 S	94.3	30
31						18.6	62	99.6					31
TOTAL		300.61		709.03		519.1		2 574.8		584.0		2 772.6	TOTAL
MEAN		10.0		23.6		16.7		83.1		19.5		92.4	MEAN

ALBERTA

NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY - STATION NO. 11AA001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		20.0	55	95.0		18.7	20	32.3		16.8	18	26.1	1
2		19.8	53	90.7		18.6	19	30.5		16.7	21	30.3	2
3		19.8	51	87.2		18.5	19	30.4		16.8	22 S	31.9	3
4		19.7	49	83.4		18.3	19	30.0		16.9	21	30.7	4
5		19.8	47	80.4		18.1	18	28.1		16.8	18	26.1	5
6		19.8	44	75.3		18.1	18	28.1		16.7	16	23.1	6
7		19.9	42	72.2		18.0	17	26.4		16.8	14	20.3	7
8	14.0	19.8	40 S	68.4		18.2	17	26.7	17.0	16.6	11 S	15.8	8
9		19.6	37	62.7		18.2	16	25.2		16.6	11	15.8	9
10	16.0	19.7	35 S	59.6	20.0	18.1	16 S	25.0		16.5	12	17.1	10
11		19.6	33	55.9		18.2	16	25.2	17.0	16.5	12 S	17.1	11
12		19.4	32	53.6		18.1	16	25.0		16.5	13	18.5	12
13		19.4	31	52.0		18.0	15	23.3		16.4	13	18.4	13
14	15.0	19.9	29 S	49.9		18.1	15	23.5	15.5	16.4	13 S	18.4	14
15		19.9	29	49.9		18.2	14	22.0		16.3	15	21.1	15
16		20.2	28	48.9		18.1	14	21.9		16.3	18	25.3	16
17		20.2	28	48.9		18.1	13	20.3		16.7	20	28.9	17
18		20.2	28	48.9	20.5	17.1	13 S	19.2		17.1	21	31.0	18
19		20.1	28	48.6		16.3	12	16.9		17.2	21	31.2	19
20	18.0	19.9	28 S	48.1		16.6	12	17.2		17.0	20	29.4	20
21		20.0	28	48.4		16.9	11	16.1	11.0	17.2	20 S	29.7	21
22		20.1	27	46.9		16.8	11	16.0		17.1	22	32.5	22
23		20.1	26	45.2		16.8	11	16.0		17.1	25	36.9	23
24	16.0	20.8	25 S	44.9		16.8	10	14.5	10.0	17.0	26 S	38.2	24
25		21.8	27	50.9	23.0	16.7	10 S	14.4		17.1	27	39.9	25
26		19.4	27	45.3		16.7	11	15.9		17.2	28	41.6	26
27		19.1	25	41.3		16.7	12	17.3		16.1	26	36.2	27
28		19.0	23	37.8		16.7	13	18.8	10.0	12.9	21 S	23.4	28
29	19.0	18.7	21 S	33.9		16.7	14	20.2		7.50	19	12.3	29
30		18.8	20	32.5		16.7	15	21.6		3.48	17	5.11	30
31		18.8	20	32.5	17.0	16.8	16 S	23.2					31
TOTAL		613.3		1 739.2		543.9		691.2		476.28		772.31	TOTAL
MEAN		19.8		56.1		17.5		22.3		15.9		25.7	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.85	16	2.56		0.670	4	0.23					1
2		1.26	16	1.74	5.0	0.683 A	4 S	0.24					2
3		1.02	16	1.41									3
4		0.974	16	1.35									4
5	6.0	0.951	16 S	1.31									5
6		0.827	14	1.00									6
7		0.754	13	0.85									7
8	7.0	0.649	11 S	0.62									8
9		0.636	8	0.44									9
10		0.643	6	0.33									10
11		0.718	4	0.25									11
12		0.760	4	0.26									12
13		0.787	4	0.27									13
14		0.767	4	0.27									14
15	7.5	0.760	4 S	0.26									15
16		0.703	4	0.24									16
17		0.665	4	0.23									17
18		0.666	4	0.23									18
19		0.657	4	0.23									19
20		0.715	4	0.25									20
21		0.710	4	0.25									21
22		0.700	4	0.24									22
23		0.725	4	0.25									23
24		0.763	4	0.26									24
25		0.756	4	0.26									25
26		0.697	4	0.24									26
27		0.697	4	0.24									27
28		0.695	4	0.24									28
29		0.673	4	0.23									29
30		0.680	4	0.24									30
31		0.666	4	0.23									31
TOTAL		24.524		16.78									TOTAL
MEAN		0.791		0.54									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 159 ON MAR 23

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 264 ON JUN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 19 N
LONG 112 58 18 W
DRAINAGE AREA 238 km^2
REGULATED FLOW SINCE 1916
INTERNATIONAL GAUGING STATION

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY UNITED STATES GEOLOGICAL SURVEY

NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT - STATION NO. 05DA009

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		9.30 B				5.60 B				6.00 B			1
2		9.00 B				5.45 B				5.95 B			2
3		8.60 B				5.30 B				5.85 B			3
4		8.40 B				5.10 B				5.80 B			4
5		8.20 B				4.90 B				5.80 B			5
6		8.00 B				4.70 B				5.80 B			6
7		7.90 B				4.50 B				5.80 B			7
8		7.60 B				4.30 B				5.80 B			8
9		7.50 B				4.20 B				5.85 B			9
10		7.40 B				4.08 B				5.90 B			10
11		7.25 B				4.05 B				6.00 B			11
12		7.15 B				4.03 B				6.15 B			12
13		6.99 B				4.00 B				6.20 B			13
14		6.85 B				4.20 B				6.30 B			14
15		6.70 B				4.35 B				6.35 B			15
16		6.60 B				4.50 B				6.40 B			16
17		6.65 B				4.70 B				6.30 B			17
18		6.45 B				4.85 B				6.25 B			18
19		6.40 B				5.00 B				6.20 B			19
20		6.35 B				5.15 B				6.10 B			20
21		6.30 B				5.35 B				6.00 B			21
22		6.25 B				5.50 B				5.95 B			22
23		6.20 B				5.63 B				5.85 B			23
24		6.15 B				5.75 B				5.60 B			24
25		6.10 B				5.90 B				5.50 B			25
26		6.13 B				6.00 B				5.40 B			26
27		6.00 B				6.05 B				5.35 B			27
28		5.95 B				6.10 B				5.35 B			28
29		5.90 B								5.30 B			29
30		5.80 B								5.30 B			30
31		5.70 B								5.25 B			31
TOTAL		215.77				139.24				181.65			TOTAL
MEAN		6.96				4.97				5.86			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.20 E				18.2 E	5	7.86	7.0	144	59 S	734	1
2		5.20 E				20.0 E	5	8.64	8.5	156	88 S	1 190	2
3		5.20 E				22.0 E	5	9.50	7.0	163	88 S	1 240	3
4		5.20 E				24.0 E	5	10.4	8.5	152	63 S	827	4
5		5.20 E			5.0	25.2 A	5 S	10.9	10.5	128	51 S	564	5
6		5.31 E				22.3	4	7.71	8.0	120	40 S	415	6
7		5.40 E				21.0	5	9.07	6.5	113	37 S	361	7
8		5.50 E			8.0	21.0	5 S	9.07		95.2	35	288	8
9		5.70 E				22.1	7	13.4	9.0	80.9	35 S	245	9
10		5.90 E			7.0	22.8	7 S	13.8	9.0	72.8	30 S	189	10
11		6.10 E				23.5	6	12.2	10.0	72.1	21 S	131	11
12		6.30 E			8.5	24.0	6 S	12.4	7.0	68.5	20 S	118	12
13		6.50 E				24.9	11	23.7	6.5	67.9	26 S	153	13
14		6.75 E			9.5	27.7	15 S	35.9	8.0	65.7	22 S	125	14
15		6.90 E				30.5	21	55.3	8.5	73.3	41 S	260	15
16		6.95 E			4.5	31.2	22 S	59.3	8.0	83.9	43 S	312	16
17		7.05 E				32.5	27	75.8	7.0	79.5	32 S	220	17
18		7.10 E			8.0	39.4	69 S	235	7.0	67.5	19 S	111	18
19		7.15 E				52.9	121	553	7.0	59.3	19 S	97.3	19
20		7.25 E			7.0	67.8	173 S	1 010	8.0	55.0	18 S	85.5	20
21		7.40 E				99.6	248	2 130	10.0	54.7	23 S	109	21
22		7.70 E			6.0	134	336 S	3 890	9.5	52.2	15 S	67.7	22
23		8.00 E				146	297	3 750	9.5	50.9	15 S	66.0	23
24		8.30 E			8.5	152	199 S	2 610	11.0	50.9	12 S	52.8	24
25		8.60 E				177	276	4 220	13.0	53.4	15 S	69.2	25
26		9.00 E			10.5	210	380 S	6 890	10.0	75.3	88 S	573	26
27		10.8 E				211	347	6 330	9.5	102	106 S	934	27
28		12.6 E			6.5	165	146 S	2 080	8.0	93.5	62 S	501	28
29		14.8 E				131	86	973	9.0	83.8	39 S	282	29
30		16.4 E			7.5	135	73 S	851	8.5	97.1	75 S	629	30
31						142	67	822					31
TOTAL		225.46				2 275.6		36 718.95		2 631.4		10 949.5	TOTAL
MEAN		7.52				73.4		1 180		87.7		365	MEAN

ALBERTA

NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT - STATION NO. 05DA009

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	7.5	123	148 S	1 570	8.0	218	118 S	2 220		125	43	464	1
2		133	165	1 900	11.0	200	118 S	2 040	9.5	121	76 S	795	2
3	8.5	153	153 S	2 020		195	119	2 000		96.1	80	664	3
4		186	171	2 750	10.5	184	100 S	1 590		84.2	77	560	4
5	9.5	220	204 S	3 880		181	97	1 520	7.5	84.1	77 S	560	5
6		214	194	3 590	12.5	189	104 S	1 700		80.8	93	649	6
7	7.5	189	127 S	2 070		203	117	2 050		85.7	122	903	7
8		158	93	1 270		223	165	3 180	9.0	103	148 S	1 320	8
9	10.0	185	63 S	1 010	9.5	216	164 S	3 060		133	133	1 530	9
10		205	59	1 050		218	193	3 640		138	129	1 540	10
11	8.5	186	62 S	996		226	218	4 260	10.0	113	123 S	1 200	11
12		163	82	1 150	10.0	240	246 S	5 100		110	104	988	12
13	8.0	145	123 S	1 540		247	244	5 210		96.0	76	630	13
14		217	181	3 390		241	225	4 690	9.5	81.6	42 S	296	14
15	8.0	244	270 S	5 690	10.0	237	199 S	4 070		78.3	40	271	15
16		221	225	4 300		243	184	3 860		93.9	57	462	16
17	8.0	218	159 S	2 990		240	162	3 360	10.0	115	78 S	775	17
18		224	147	2 840	10.5	223	149 S	2 870		124	83	889	18
19	11.5	242	199 S	4 160		212	142	2 600		141	96	1 170	19
20		249	229	4 930		217	148	2 770	6.5	131	95 S	1 080	20
21	10.0	255	226 S	4 980	7.5	198	136 S	2 330		86.8	59	442	21
22		253	227	4 960		178	127	1 950	7.0	67.9	36 S	211	22
23	8.5	264	239 S	5 450	9.0	177	107 S	1 640	5.5	58.0	28 S	140	23
24		248	203	4 350		185	136	2 170		51.3	27	120	24
25	12.5	227	141 S	2 770	8.5	193	145 S	2 420		46.2	29	116	25
26		215	121	2 250		213	135	2 480	5.0	41.9	30 S	109	26
27	8.5	225	196 S	3 810		214	132	2 440		38.3	23	76.1	27
28		264	311	7 090		185	105	1 680		36.0	21	65.3	28
29	9.5	286	437 S	10 800		167	97	1 400	6.0	33.5	23 S	66.6	29
30	8.0	263	224 S	5 090	10.5	159	94 S	1 290		31.5	23	62.6	30
31	8.0	244	150 S	3 160		138	57	680					31
TOTAL		6 619		107 806		6 360		82 270		2 626.1		18 154.6	TOTAL
MEAN		214		3 480		205		2 650		87.5		605	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		30.6	28	74.0		16.9				9.00 E			1
2	6.5	38.0	24 S	78.8		18.7				8.95 E			2
3		32.9	12	34.1		17.8				8.65 E			3
4		29.8	14	36.0		17.0				8.45 E			4
5		27.3	17	40.1		14.8				8.25 E			5
6	4.0	25.6	17 S	37.6		14.6				8.10 E			6
7		24.9	16	34.4		14.6				8.05 E			7
8		24.4	16	33.7		13.9				8.15 E			8
9		23.6	16	32.6		13.3				8.25 E			9
10	4.0	22.6	17 S	33.2		12.5				8.35 E			10
11		21.2	17	31.1		13.0				8.40 E			11
12		20.3	17	29.8		13.2				8.40 E			12
13		19.5	18	30.3		13.8				8.40 E			13
14	6.0	19.1	19 S	31.4		12.6				8.40 E			14
15		18.4	18	28.6		12.7				8.40 E			15
16		18.2	17	26.7		11.9	A			7.80 E			16
17		18.0	17	26.4		11.7	E			7.75 E			17
18	6.0	17.5	17 S	25.7		11.5	E			7.60 E			18
19		17.3	15	22.4		11.3	E			7.65 E			19
20		16.5	15	21.4		11.1	E			7.65 E			20
21		15.4	15	20.0		10.9	E			7.69 E			21
22	0.5	15.3	15 S	19.8		10.5	E			7.70 E			22
23		15.4	15	20.0		10.1	E			7.60 E			23
24		15.2	15	19.7		10.0	E			7.40 E			24
25		15.1	15	19.6		9.85	E			7.30 E			25
26		16.0	15	20.7		9.65	E			7.05 B			26
27		15.3	15	19.8		9.55	E			6.80 B			27
28		15.3	15	19.8		9.45	E			6.70 B			28
29		15.8	15	20.5		9.30	E			6.40 B			29
30		15.0	15	19.4		9.20	E			5.95 B			30
31		14.3	15	18.5						5.60 B			31
TOTAL		633.8		926.1		375.40				240.84			TOTAL
MEAN		20.4		29.9		12.5				7.77			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 437 ON JUL 29

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 10 800 ON JUL 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 00 10 N
LONG 116 28 20 W
DRAINAGE AREA 1 920 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		30.8				9.15 B				11.4 B	17	16.7	1
2		26.3				9.00 B				11.5 B	17	16.9	2
3		24.4 B				8.95 B				12.1 B	17	17.8	3
4		22.5 B				8.90 B				12.6 B	17	18.5	4
5		20.2 B				8.85 B				12.6 B	17	18.5	5
6		18.8 B				8.80 B				12.3 B	17	18.1	6
7		17.6 B				8.80 B				11.3 B	17	16.6	7
8		16.5 B				8.80 B				11.5 B	17	16.9	8
9		15.5 B				8.80 B				11.0 B	17	16.2	9
10		14.6 B				8.80 B			4.0	10.9	17 S	16.0	10
11		13.8 B				9.00 B				11.6	20	20.0	11
12		13.1 B				10.0 B				11.9	18	18.5	12
13		12.6 B				13.0 B				12.3	17	18.1	13
14		12.0 B				17.0 B				12.8	17	18.8	14
15		11.5 B				23.0 B				13.3	18	20.7	15
16		10.9 B				24.0 B				13.9	18	21.6	16
17		10.4 B				21.0 B				14.7	17	21.6	17
18		12.0 B				19.1 B				14.1	13	15.8	18
19		14.5 B				17.3 B				12.2	12	12.6	19
20		12.9 B				16.0 B				10.8 B	9	8.40	20
21		12.0 B				15.5 B				11.2 B	11	10.6	21
22		11.5 B				15.0 B				12.0 B	10	10.4	22
23		12.3 B				14.7 B				12.8 B	10	11.1	23
24		13.5 B				14.2 B				13.5	9	10.5	24
25		11.9 B				12.7 B				13.8	8 S	9.54	25
26		11.1 B				12.0 B				14.5	10	12.5	26
27		10.5 B				11.9 B				14.8	11	14.1	27
28		10.1 B				11.6 B				14.3	10	12.4	28
29		9.70 B								14.2	8	9.82	29
30		9.50 B								16.8	11	16.0	30
31		9.30 B								17.4	11	16.5	31
TOTAL		451.90				365.85				400.1		481.76	TOTAL
MEAN		14.6				13.1				12.9		15.5	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	7.0	17.0	14 S	20.6		105	72	653	10.0	227	95 S	1 860	1
2		16.6	11	15.8		141	138	1 680	12.0	204	116 S	2 040	2
3	3.0	16.0	8 S	11.1	8.0	117	99 S	1 000	11.0	189	94 S	1 530	3
4		15.8	8	10.9		98.9	89	761		182	58	912	4
5		15.3	8	10.6		96.7	83	693	12.0	172	29 S	431	5
6		16.0	7	9.68		93.5	80	646		160	27	373	6
7		15.4	6	7.98		86.1	76	565		156	31	418	7
8	4.0	15.3	5 S	6.61		92.1	70	557		144	31	386	8
9		15.5	6	8.04		97.8	59	499	12.0	130	30 S	337	9
10		15.5	7	9.37		97.7	46	388		120	29	301	10
11		14.9	7	9.01	10.0	93.9	40 S	325		110	26	247	11
12		14.1	6	7.31		86.9	28	210		102	26	229	12
13		12.9	7	7.80		83.1	19	136	9.0	146	522 S	6 580	13
14		12.6	7	7.62		87.2	60	452	6.0	221	779 S	14 900	14
15		13.0	8	8.99		135	248	2 890	10.0	193	297 S	4 950	15
16		15.0	9	11.7		208	399	7 170		203	156	2 740	16
17		18.4	15	23.8		179	240	3 710	10.0	209	153 S	2 760	17
18		20.2	17	29.7	10.0	191	202 S	3 330		191	107	1 770	18
19		23.0	22	43.7	12.0	238	412 S	8 470	10.0	169	57 S	832	19
20		26.2	24	54.3		302	606	15 800		158	41	560	20
21		35.6	28	86.1	7.0	354	889 S	27 200		154	33	439	21
22	7.0	41.9	42 S	152	8.0	477	1 700 S	70 100	10.0	145	27 S	338	22
23		47.1	59	240	9.0	457	1 260 S	49 800		136	24	282	23
24		79.2	80	547		403	841	29 300	12.0	131	17 S	192	24
25		96.3	83	691	9.0	395	734 S	25 000		122	12	126	25
26		78.9	58	395	10.0	435	1 290 S	48 500		122	9	94.9	26
27	10.0	69.4	44 S	264	9.0	376	789 S	25 600		134	13	151	27
28		67.2	31	180	15.0	321	467 S	13 000		142	16	196	28
29	10.0	72.0	33 S	205	20.0	280	282 S	6 820		126	11	120	29
30		74.6	35	226		257	173	3 840		121	9	94.1	30
31					15.0	245	110 S	2 330					31
TOTAL		990.9		3 300.71		6 629.9		351 425		4 719		46 189.0	TOTAL
MEAN		33.0		110		214		11 300		157		1 540	MEAN

ALBERTA

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		126	16	174		39.9	9	31.0		16.8	7	10.2	1
2		121	19	199		37.8	9	29.4	13.0	17.4	9 S	13.5	2
3	17.0	110	16 S	152		36.5	10	31.5		17.4	10	15.0	3
4		107	12	111	17.0	35.7	11 S	33.9	12.0	16.7	12 S	17.3	4
5		104	11	98.8		34.3	12	35.6		16.3	13	18.3	5
6		101	9	78.5		32.2	13	36.2		16.0	13	18.0	6
7		98.5	8	65.3		30.2	15	39.1		15.5	12	16.1	7
8	17.0	86.7	8 S	59.9		32.9	15	42.6		14.7	13	16.5	8
9		75.8	7	45.8		32.9	12	34.1		14.1	14	17.1	9
10		70.4	7	42.6		30.4	11	28.9		13.5	14 S	16.3	10
11	17.0	70.2	6 S	36.4	20.0	28.7	11 S	27.3		13.3	14	16.1	11
12		64.1	8	44.3		27.3	11	25.9		13.1	12	13.6	12
13		65.4	13	73.5		27.7	12	28.7		12.9	13	14.5	13
14		66.3	15	85.9	18.0	28.7	11 S	27.3		12.8	12	13.3	14
15	12.0	61.8	16 S	85.4		31.8	11	30.2		13.1	12	13.6	15
16		60.7	17	89.2		28.6	12	29.7		12.8	12	13.3	16
17		59.3	17	87.1		27.9	12	28.9		12.5	12 S	13.0	17
18		56.6	18	88.0		26.0	10	22.5		12.3	12	12.8	18
19		52.3	18	81.3	18.0	24.3	8 S	16.8		11.9	10	10.3	19
20		50.1	17	73.6		23.3	8	16.1		11.9	9	9.25	20
21		48.6	14	58.8		22.3	9	17.3		11.9	9	9.25	21
22	16.0	48.6	13 S	54.6		21.6	9	16.8		12.1	10	10.5	22
23		48.0	13	53.9		20.9	9	16.3		12.1	9	9.41	23
24		51.0	11	48.5	16.0	19.9	10 S	17.2		12.0	9	9.33	24
25		59.4	18	92.4		19.2	11	18.2		12.0	9	9.33	25
26		61.3	22	117		19.1	9	14.9		12.6	11	12.0	26
27		52.9	14	64.0		19.0	9	14.8		12.9	11	12.3	27
28	17.0	50.0	9 S	38.9		18.9	10	16.3		12.9	9	10.0	28
29		49.2	9	38.3		17.7	10	15.3	8.0	13.1	8 S	9.05	29
30		46.1	9	35.8		17.3	9	13.5		12.9	9	10.0	30
31		42.8	9	33.3		17.5	9	13.6					31
TOTAL		2 161.1		2 407.1		830.5		769.9		409.5		389.22	TOTAL
MEAN		69.7		77.6		26.8		24.8		13.7		13.0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		12.1	9	9.41		9.97				7.35 B			1
2		11.8	8	8.16		9.95				10.1 B			2
3		14.0	9	10.9		9.84				9.90 B			3
4		13.6	9	10.6		9.64				9.60 B			4
5		12.8	9	9.95		9.62				9.00 B			5
6		12.2	8	8.43		9.04				10.5 B			6
7		12.1	7	7.32		9.10				9.10 B			7
8		11.9	8	8.23		9.43				8.80 B			8
9		11.7	7	7.08		9.30				8.60 B			9
10		11.5	7	6.96		9.30				9.30 B			10
11		11.7	7	7.08		8.97				7.80 B			11
12		12.5	7	7.56		9.05				6.00 B			12
13		12.1	6	6.27		9.15				4.80 B			13
14		11.6	7	7.02		9.42				4.25 B			14
15		12.0	7	7.26		9.22				5.60 B			15
16		11.8	7	7.14		9.26				6.84 B			16
17		11.7	7	7.08		9.43				6.50 B			17
18		11.5	6	5.96		9.50				6.20 B			18
19		11.3	5	4.88		8.75				7.50 B			19
20		11.7	4	4.04		8.12 B				9.30 B			20
21		11.2	4	3.87		8.50 B				8.25 B			21
22		10.2	4	3.53		9.00 B				7.50 B			22
23		10.1	4	3.49		8.40 B				6.70 B			23
24		11.0	4	3.80		7.42				6.20 B			24
25		11.0	4	3.80		4.49				5.75 B			25
26		10.7	4	3.70		1.98				5.45 B			26
27	6.0	10.8	4 S	3.73		2.50 B				5.20 B			27
28		10.9	4	3.77		3.35 B				4.95 B			28
29		10.8	4	3.73		4.30 B				4.75 B			29
30		10.5	4	3.63		5.60 B				4.55 B			30
31		10.0	4	3.46						4.40 B			31
TOTAL		358.8		191.84		241.60				220.74			TOTAL
MEAN		11.6		6.19		8.05				7.12			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 700 ON MAY 22

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 70 100 ON MAY 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 27 N
LONG 113 49 20 W
DRAINAGE AREA 4 400 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000
MAY 21	13:20	333	7.0	846 R	12	19	29	42	55	70	84	94	98	99	BNW
MAY 23	13:20	462	9.0	1 190 R	10	17	27	39	53	67	82	92	97	99	BNW
JUN 13	13:30	146 H	9.0	626 K	27	36	51	67	80	92	98	100			BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		84.0 B				27.5 B				30.1	12	31.2	1
2		82.0 B				26.5 B				28.9	14	35.0	2
3		80.0 B				26.5 B				27.7	14	33.5	3
4		78.0 B				26.0 B				27.3	13	30.7	4
5		76.0 B				25.5 B				27.6	11	26.2	5
6		74.2 B				24.5 B				27.9	13	31.3	6
7		73.0 B				24.2 B				26.6	12	27.6	7
8		70.0 B				24.0 B				26.0	9	20.2	8
9		66.0 B				23.8 B				24.4	12	25.3	9
10		63.0 B				23.8 B				25.9 A	14	31.3	10
11		61.0 B				23.6 B			4.0	24.9 A	13 S	28.0	11
12		58.0 B				23.5 B				26.1	11	24.8	12
13		56.0 B				23.4 B				25.9	12	26.9	13
14		54.0 B				23.5 B				22.3	14	27.0	14
15		52.0 B				24.0 B				22.2	15	28.8	15
16		50.0 B				30.0 B				22.3	13	25.0	16
17		48.0 B				45.0 B				24.5	14	29.6	17
18		46.0 B				56.0 B				25.5	13	28.6	18
19		44.0 B				60.5 A				25.9	11	24.6	19
20		47.0 B				57.0 E				24.6	10	21.3	20
21		46.0 B				53.4 A				17.9	14	21.7	21
22		44.0 B				49.1 E				18.1	14	21.9	22
23		41.0 B				44.7 A				19.5	17	28.6	23
24		39.0 B				42.0 E				22.1	17	32.5	24
25		37.0 B				39.3 A				22.0	14	26.6	25
26		34.0 B				32.4 A				22.9	14	27.7	26
27		32.2 B				33.5				24.0	12	24.9	27
28		31.0 B				31.8				25.8	13	29.0	28
29		29.5 B								26.8	14	32.4	29
30		28.5 B								29.7	13	33.4	30
31		28.0 B								30.1	14	36.4	31
TOTAL		1 652.4				945.0				775.5		872.0	TOTAL
MEAN		53.3				33.8				25.0		28.1	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		31.8	15	41.2	14.0	60.5	47 S	246	14.5	467	586 S	23 600	1
2	6.0	31.1	20 S	53.7		77.9	349	2 350	14.0	430	449 S	16 700	2
3		29.5	20	51.0	10.0	115	599 S	5 950	14.0	385	400 S	13 300	3
4		27.7	20	47.9	10.0	107	313 S	2 890	14.0	354	294 S	8 990	4
5		26.5	17	38.9	8.0	94.5	165 S	1 350	18.0	332	254 S	7 290	5
6		25.1	19	41.2	7.0	88.3	109 S	832	13.0	308	205 S	5 460	6
7		23.7	17	34.8	7.0	122	314 S	3 310	13.0	287	213 S	5 280	7
8		23.4	17	34.4	8.0	140	597 S	7 220	13.0	279	181 S	4 360	8
9	10.0	22.2	14 S	26.9	8.0	155	662 S	8 870	13.0	265	162 S	3 710	9
10		21.3	12	22.1	9.0	172	744 S	11 100	13.0	240	165 S	3 420	10
11		20.7	14	25.0	10.0	165	438 S	6 240	13.0	233	152 S	3 060	11
12		20.3	10	17.5	10.0	148	260 S	3 320	13.0	205	146 S	2 590	12
13	7.0	19.6	11 S	18.6	10.0	127	150 S	1 650	12.0	205	299 S	5 300	13
14		18.5	17	27.2	12.0	111	94 S	901	11.5	387	945 S	31 600	14
15		17.4	25	37.6	10.0	110	93 S	884	12.5	659	1 800 S	102 000	15
16	14.0	16.8 A	27 S	39.2	8.0	242	1 390 S	29 100	14.0	516	625 S	27 900	16
17		16.0 E	34	47.0	6.0	518	4 100 S	183 000	13.0	465	334 S	13 400	17
18	13.0	15.4 A	34 S	45.2	9.0	609	1 640 S	86 300	11.0	439	275 S	10 400	18
19		17.5 E	21	31.8	13.0	486	992 S	41 700	12.0	399	202 S	6 960	19
20	10.3	20.4 A	12 S	21.2	10.5	517	1 230 S	54 900	13.0	331	145 S	4 150	20
21	11.5	24.6 A	15 S	31.9	13.5	514	1 610 S	71 500	13.0	312	130 S	3 500	21
22	10.5	26.6 A	15 S	34.5	12.0	676	2 470 S	144 000	12.0	303	112 S	2 930	22
23		29.5 E	12	30.6	12.5	1 090	4 970 S	468 000	13.0	259	103 S	2 300	23
24	11.0	33.8 A	20 S	58.4	13.5	1 100	3 090 S	294 000	13.0	242 A	127 S	2 660	24
25		54.0 E	27	126	13.0	982	2 260 S	192 000	15.0	221 A	70 S	1 340	25
26	12.8	89.3 A	63 S	486	14.5	904	2 080 S	162 000	17.0	206 A	79 S	1 410	26
27	10.0	84.4 A	167 S	1 220	14.0	897	1 920 S	149 000	16.0	178 A	94 S	1 450	27
28	10.1	71.4 A	116 S	716	14.0	800	1 270 S	87 800	17.0	193 A	118 S	1 970	28
29	9.0	62.4	74 S	399	15.5	681	941 S	55 400	15.0	205 A	109 S	1 930	29
30		61.0	42	221	16.0	579	739 S	37 000	16.0	185 A	75 S	1 200	30
31					16.0	518	624 S	27 900					31
TOTAL		981.9		4 025.8		12 906.2		2 140 713		9 490		320 160	TOTAL
MEAN		32.7		134		416		69 100		316		10 700	MEAN

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	17.0	180 A	63 S	980		44.9	16	62.1		17.0	9	13.2	1
2	16.0	180 A	60 S	933		46.5	20	80.4	14.0	16.4	11 S	15.6	2
3	17.0	175 A	54 S	816		49.2	20	85.0		16.4	12	17.0	3
4		161 E	54	751		45.2	15	58.6	15.0	16.8	9 S	13.1	4
5	20.0	146 A	48 S	605		46.8	9	36.4		16.8	7	10.2	5
6	18.0	140 A	48 S	581		45.9	14	55.5		16.1	5	6.96	6
7	18.0	132 A	53 S	604		48.8	59	249	21.0	15.7	5 S	6.78	7
8	13.0	123	63 S	670		74.1	209	1 340		15.5	9	12.1	8
9		112	62	600	22.0	52.0	218 S	979		14.5	10	12.5	9
10	16.0	103	55 S	489		43.1	129	480		13.2	16	18.2	10
11	21.0	95.8	42 S	348	21.0	39.9	43 S	148	18.0	12.3	11 S	11.7	11
12		93.3	29	234		36.6	12	37.9		12.2	13	13.7	12
13	19.0	90.9	34 S	267		33.2	14	40.2		11.9	12	12.3	13
14		88.5	44	336	21.0	31.0	8 S	21.4	15.0	11.7	9 S	9.10	14
15	16.0	77.0	29 S	193		32.3	7	19.5		11.6	5	5.01	15
16		68.3	20	118		33.1	8	22.9		11.0	9	8.55	16
17	18.0	63.0	27 S	147	21.0	35.5	10 S	30.7	16.0	10.5	11 S	9.98	17
18		59.3	30	154		32.9	10	28.4		10.2	15	13.2	18
19	20.0	57.3	23 S	114	20.0	32.4	7 S	19.6		10.1	18	15.7	19
20		53.9	52	242		29.1	7	17.6		10.6	14	12.8	20
21	22.0	49.6	104 S	446	20.0	26.7	8 S	18.5	13.0	10.1	9 S	7.85	21
22		49.9	86	371		25.5	11	24.2		9.38	10	8.10	22
23		50.3	41	178		24.8	9	19.3		9.65	13	10.8	23
24		55.3	23	110	20.0	24.1	7 S	14.6	8.0	9.81	9 S	7.63	24
25		56.1	27	131		21.0	11	20.0		10.3	12	10.7	25
26		58.8	28	142	22.0	19.6	12 S	20.3		10.1	13	11.3	26
27	23.0	67.2	28 S	163	21.0	19.2	11 S	18.2	9.0	9.91	14 S	12.0	27
28		58.3	27	136	24.0	18.8	9 S	14.6	12.0	10.2	8 S	7.05	28
29		55.3	25	119		18.0	13	20.2		10.5	8	7.26	29
30		55.0	27	128		17.6	15	22.8	9.0	11.0	16 S	15.2	30
31		49.6	23	98.6	15.0	17.2	10 S	14.9					31
TOTAL		2 804.7		11 204.6		1 065.0		4 019.8		371.45		335.57	TOTAL
MEAN		90.5		361		34.4		130		12.4		11.2	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		11.5	19	18.9		29.2	94	237		9.00 B			1
2	10.0	11.2	17 S	16.5	9.0	31.0	85 S	228		9.60 B			2
3		10.8	13	12.1		30.8	78	208		10.0 B			3
4		10.4	19	17.1		34.6	70	209		9.80 B			4
5	6.0	10.0	17 S	14.7		37.4	62	200		9.70 B			5
6		10.7	15	13.9	8.0	33.0	65 S	185		10.0 B			6
7		11.0	17	16.2		29.4	69	175		10.2 B			7
8		10.6	16	14.7		26.0	74	166		10.0 B			8
9		10.2	16	14.1		23.3	76	153		9.80 B			9
10		10.3	14	12.5		22.3	73	139		9.60 B			10
11		11.1	13	12.5		21.8	70	132		9.40 B			11
12		11.6	13	13.0	7.0	22.5	72 S	140		9.40 B			12
13	7.0	11.6	10 S	10.0		22.2	72	138		9.40 B			13
14		11.3	13	12.7		22.6	73	143		9.40 B			14
15		10.9	15	14.1		22.6	75	146		9.40 B			15
16		11.7	15	15.2	4.0	22.3	72 S	139		9.40 B			16
17		11.8	14	14.3		22.3	68	131		9.50 B			17
18	8.0	11.8	11 S	11.2		23.1	67	134		9.70 B			18
19		11.2	12	11.6		21.9	64	121		10.0 B			19
20		10.4	15	13.5	3.0	21.2	63	115		9.80 B			20
21		10.4	13	11.7		17.8 B	61	93.8		9.60 B			21
22		11.7	45	45.5		15.2 B	61	80.1		9.40 B			22
23		16.1	71	98.8		13.8 B	60	71.5		9.00 B			23
24		16.7	66	95.2		12.6 B	60	65.3		8.60 B			24
25		17.0	68	99.9		11.8 B	59	60.2		8.00 B			25
26	6.5	17.9	72 S	111		11.0 B	59	56.1		7.50 B			26
27		18.1	75	117		9.80 B	57	48.3		7.40 B			27
28		18.0	78	121		8.60 B	56	41.6		7.00 B			28
29		21.3	92	169		8.80 B	55	41.8		6.40 B			29
30	5.0	23.2	100 S	200		9.00 B	55	42.8		5.70 B			30
31		23.1	100	200						5.30 B			31
TOTAL		413.6		1 547.9		637.60		3 840.5		277.00			TOTAL
MEAN		13.3		49.9		21.3		128		8.94			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 4 970 ON MAY 23

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 468 000 ON MAY 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 42 30 N
LONG 112 52 30 W
DRAINAGE AREA 17 000 km^2
REGULATED FLOW SINCE 1910

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 20	12:50	513	8.0	1 220 R	16	22	35	49	63	79	99	100				BNW
MAY 23	14:15	1 120	14.0	4 750 R	19	24	37	49	63	83	95	98	100			BNW
MAY 25	13:20	966	14.0	1 810 R	15	21	33	46	61	78	98	99	100			BNW
MAY 27	17:10	897 H	15.0	1 230 K	18	24	37	52	66	83	99	100				BNW
JUN 15	09:10	659 H	11.0	2 510 K	21	28	41	54	68	80	93	97	99	100		BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		8.30 B				2.71 B				2.80 B	50	12.1	1
2		7.20 B				2.67 B				2.90 B	50	12.5	2
3		6.40 B				2.62 B				3.10 B	50	13.4	3
4		5.80 B				2.58 B				3.05 B	51	13.4	4
5		5.45 B				2.56 B				2.98 B	51	13.1	5
6		5.10 B				2.54 B				2.92 B	51	12.9	6
7		4.80 B				2.52 B				2.90 B	52	13.0	7
8		4.55 B				2.51 B				2.93 B	52	13.2	8
9		4.25 B				2.50 B				3.00 B	52	13.5	9
10		4.00 B				2.52 B			0.1	3.08 B	53	14.1	10
11		3.80 B				2.63 B				3.20 B	53	14.7	11
12		3.60 B				2.82 B				3.30 B	53	15.1	12
13		3.45 B				3.20 B				3.42 B	54	16.0	13
14		3.30 B				3.70 B				3.55 B	54	16.6	14
15		3.18 B				4.10 B				3.75 B	54	17.5	15
16		3.06 B				3.72 B				3.90 B	52	17.5	16
17		2.99 B				3.50 B				4.00 B	52	18.0	17
18		3.25 B				3.30 B				3.75 B	51	16.5	18
19		4.00 B				3.20 B				3.45 B	51	15.2	19
20		3.50 B				3.12 B				3.05 B	52	13.7	20
21		3.35 B				3.05 B				3.12 B	53	14.3	21
22		3.25 B				2.98 B				3.28 B	54	15.3	22
23		3.75 B				2.92 B				3.45 B	54	16.1	23
24		3.55 B				2.88 B				3.65 B	53	16.7	24
25		3.35 B				2.84 B				3.85	51	17.0	25
26		3.15 B				2.81 B				4.18	51	18.4	26
27		3.08 B				2.79 B				3.88	51	17.1	27
28		2.97 B				2.78 B				3.96	51	17.4	28
29		2.90 B								4.16	51	18.3	29
30		2.83 B								4.59	50	19.8	30
31		2.78 B							3.0	4.47	50 S	19.3	31
TOTAL		124.94				82.07				107.62		481.7	TOTAL
MEAN		4.03				2.93				3.47		15.5	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.49	46	17.8	9.0	33.8	53 S	155		84.2	65	473	1
2		4.22	43	15.7	3.0	36.0	61 S	190	9.0	78.1	51 S	344	2
3		4.17	39	14.1	4.0	27.0	94 S	219	8.5	72.9	40 S	252	3
4		3.86	40	13.3	4.0	23.4	84 S	170	9.0	64.8	32 S	179	4
5		3.91	36	12.2	6.0	22.4	23 S	44.5	8.5	56.9	27 S	133	5
6		3.74	34	11.0	3.0	21.9	19 S	36.0		52.4	23	104	6
7		3.45	28	8.35	4.0	20.3	19 S	33.3		49.3	20	85.2	7
8	4.0	3.57	26 S	8.02		22.9	17	33.6	9.0	43.6	14 S	52.7	8
9		3.80	32	10.5		25.4	16	35.1	10.0	39.1	10 S	33.8	9
10		3.40	37	10.9	5.0	28.8	16 S	39.8	10.0	35.3	8 S	24.4	10
11	4.0	3.45	36 S	10.7	5.0	24.7 A	14 S	29.9	9.5	32.0	6 S	16.6	11
12	3.0	3.51	31 S	9.40	6.0	22.2 A	8 S	15.3		30.4	10	26.3	12
13		3.32	27	7.74	7.0	21.1 A	12 S	21.9	4.5	47.4	123 S	504	13
14		3.30	28	7.98		26.0 E	149	335		73.2	182	1 150	14
15		3.73	32	10.3	3.0	54.6 A	199 S	939	9.5	75.7	104 S	680	15
16	8.0	4.76	30 S	12.3	3.0	40.1 A	55 S	191	9.0	84.1	115 S	836	16
17		5.22	25	11.3	5.0	36.3 A	19 S	59.6		83.3	100	720	17
18	5.5	5.60	21 S	10.2	4.0	44.6 A	52 S	200	7.0	71.9	44 S	273	18
19		6.66	22	12.7	8.0	54.6 A	125 S	590	8.0	60.3	23 S	120	19
20		7.93	21	14.4	5.0	114 A	504 S	4 960		53.9	19	88.5	20
21		12.2	20	21.1	5.0	135 A	527 S	6 150		50.1	15	64.9	21
22		11.7	22	22.2	5.0	140 A	485 S	5 870	7.0	46.0	13 S	51.7	22
23		14.7	35	44.5	5.0	143	456 S	5 630		44.1	12	45.7	23
24		27.3	85	200	8.0	135	281 S	3 280	7.0	40.6	12 S	42.1	24
25	4.0	22.5	45 S	87.5	7.0	144	317 S	3 940	12.0	37.0	10 S	32.0	25
26	7.0	16.8	30 S	43.5	9.0	182	706 S	11 100		38.2	15	49.5	26
27		15.4	36	47.9	8.0	144	414 S	5 150		46.5	24	96.4	27
28	7.0	16.1	32 S	44.5	7.0	117	237 S	2 400		47.4	21	86.0	28
29		16.9	27	39.4	8.0	97.1	140 S	1 170	11.0	41.5	11 S	39.4	29
30	10.0	18.8	19 S	30.9	9.0	87.9	98 S	744		41.0	17	60.2	30
31					9.0	83.9	78 S	565					31
TOTAL		258.49		810.39		2 109.0		54 297.0		1 621.2		6 663.4	TOTAL
MEAN		8.62		27.0		68.0		1 750		54.0		222	MEAN

ALBERTA

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		44.4	25	95.9		14.6	2	2.52		7.44	8	5.14	1
2	12.0	39.6	18 S	61.6		13.8	3	3.58	11.0	7.56	6 S	3.92	2
3		36.4	15	47.2		13.7	3	3.55		7.41	7	4.48	3
4		35.8	14	43.3		13.5	3	3.50		7.12	8	4.92	4
5		34.1	10	29.5		12.9	3	3.34		6.99	9	5.44	5
6		32.0	9	24.9		11.7	3	3.03		6.70	10	5.79	6
7	10.0	29.0	6 S	15.0	16.0	11.0	3 S	2.85		6.43	13	7.22	7
8		25.8	4	8.92		16.7	23	33.2		6.17	12	6.40	8
9		22.9	4	7.91		14.1	17	20.7	15.0	5.96	13 S	6.69	9
10		23.5	5	10.2		12.7	15	16.5		5.80	15	7.52	10
11		22.2	5	9.59		11.8	9	9.18		5.67	13	6.37	11
12		20.0	6	10.4		11.2	7	6.77		5.57	12	5.77	12
13		21.6	5	9.33	15.0	13.8	13 S	15.5		5.49	9	4.27	13
14		21.3	5	9.20		12.7	13	14.3		5.47	9	4.25	14
15	11.0	19.5	5 S	8.42		13.8	16	19.1	14.0	5.39	8 S	3.73	15
16		19.8	6	10.3		11.7	15	15.2		5.26	7	3.18	16
17		18.8	7	11.4		11.6	13	13.0		5.14	8	3.55	17
18	14.0	17.7	5 S	7.65		10.8	11	10.3		5.05	7	3.05	18
19		16.6	5	7.17		10.2	10	8.81		4.97	7	3.01	19
20		16.3	6	8.45	16.0	9.80	7 S	5.93		4.99	7	3.02	20
21		15.4	9	12.0		9.47	6	4.91		5.02	7	3.04	21
22		16.2	13	18.2		9.15	6	4.74	10.0	4.97	8 S	3.44	22
23		16.6	20	28.7		8.82	6	4.57		4.88	8	3.37	23
24	11.0	17.8	26 S	40.0		8.50	6	4.41		4.80	7	2.90	24
25		22.6	28	54.7	17.0	8.29	6 S	4.30		4.81	7	2.91	25
26		21.3	22	40.5		8.05	6	4.17		5.06	7	3.06	26
27		18.8	20	32.5		8.76	6	4.54		4.92	7	2.98	27
28		18.9	19	31.0		8.02	7	4.85		4.91	6	2.55	28
29		19.1	12	19.8		7.70	8	5.32		4.94	6	2.56	29
30		16.9	6	8.76		7.70	9	5.99	9.0	4.78	5 S	2.06	30
31	11.0	15.6	2 S	2.70	14.0	7.84	10 S	6.77					31
TOTAL		716.5		725.20		344.40		265.43		169.67		126.59	TOTAL
MEAN		23.1		23.4		11.1		8.56		5.66		4.22	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		4.66	3	1.21		4.13				3.40 B			1
2		5.06	3	1.31		4.10				3.80 B			2
3		5.57	3	1.44		4.06				3.40 B			3
4		4.87	2	0.84		4.01				3.50 B			4
5		4.57	2	0.79		3.66 B				3.75 B			5
6		4.66	2	0.81		3.58 B				4.10 B			6
7		4.59	2	0.79		3.91 B				3.75 B			7
8		4.59	2	0.79		3.99 B				3.35 B			8
9		4.53	2	0.78		3.96				3.85 B			9
10		4.51	2	0.78		3.74				4.20 B			10
11		4.60	1	0.40		3.90				3.10 B			11
12		4.67	1	0.40		3.87				2.20 B			12
13		4.36	1	0.38		3.87				2.10 B			13
14	7.0	4.63	1 S	0.40		3.76				2.12 B			14
15		4.58	1	0.40		3.78				2.19 B			15
16		4.56	1	0.39		3.79				2.28 B			16
17		4.57	1	0.39		3.77				2.40 B			17
18		4.48	1	0.39		3.35 B				2.65 B			18
19		4.46	1	0.39		3.00 B				3.10 B			19
20		4.50	1	0.39		2.82 B				3.50 B			20
21		4.08	2	0.71		2.70 B				2.90 B			21
22		3.98	2	0.69		2.50 B				2.40 B			22
23		4.30	2	0.74		2.35 B				2.05 B			23
24		4.59	2	0.79		2.30 B				1.80 B			24
25		4.34	2	0.75		2.27 B				1.45 B			25
26		4.43	2	0.77		2.24 B				1.25 B			26
27		4.53	2	0.78		2.30 B				1.10 B			27
28	6.0	4.48	2 S	0.77		2.40 B				0.950 B			28
29		4.38	2 S	0.76		2.80 B				0.850 B			29
30		4.21	2 S	0.73		2.96 B				0.750 B			30
31		4.09	2 S	0.71						0.700 B			31
TOTAL		140.43		21.67		99.87				78.940			TOTAL
MEAN		4.53		0.70		3.33				2.55			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	706 ON MAY 26	MAXIMUM DAILY	11 100 ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 50 N
LONG 114 11 00 W
DRAINAGE AREA 1 450 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 22	19:45	140	6.0	847 R	9	13	24	33	47	61	74	85	90	93		BNW

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		737 B				832 B				924 B			1
2		966 B				823 B				1 350 B			2
3		919 B				851 B				1 450 B			3
4		737 B				793 B				1 400 B			4
5		848 B				1 170 B				1 510 B			5
6		959 B				1 530 B				1 610 B			6
7		1 020 B				1 310 B				1 700 B			7
8		997 B				1 370 B				1 580 B			8
9		1 100 B				1 300 B				1 550 B			9
10		1 160 B				1 410 B				1 490 B			10
11		1 130 B				1 190 B				1 570 B			11
12		934 B				1 310 B				1 580 B			12
13		730 B				1 630 B				1 610 B			13
14		558 B				1 740 B				1 660 B			14
15		537 B				1 660 B				1 810 B			15
16		605 B				1 490 B				1 980 B			16
17		544 B				1 420 B				1 950 B			17
18		543 B				1 400 B				2 060 B			18
19		625 B				1 350 B			0.1	1 910 B	95 S	15 700	19
20		600 B			0.1	1 350 B	43 S	5 020		1 880 B			20
21		537 B				1 150 B				1 720 B			21
22		545 B				723 B				1 670 B			22
23		573 B				510 B				1 670 B			23
24		687 B				525 B				1 690 B			24
25		803 B				514 B				1 730 B			25
26		683 B				691 B				1 610 B			26
27	0.1	715 B	12 S	741		706 B				1 580 B			27
28		752 B				746 B				1 810 B			28
29		740 B								2 000 B			29
30		717 B								2 160 B			30
31		805 B								2 320 B			31
TOTAL		23 806				31 494				52 534			TOTAL
MEAN		768				1 120				1 690			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2 380 B				2 120	4 550	833 000	16.0	3 510	649 S	197 000	1
2		2 360 B				2 140	4 980	921 000	14.5	3 970	985 S	338 000	2
3		2 420 B				2 420	4 390	918 000	14.5	4 330	1 130 S	423 000	3
4		2 470 B				2 560	2 890	639 000	13.5	3 930	1 130 S	384 000	4
5		2 590 B			8.0	2 420	1 480 S	309 000	14.5	3 500	742 S	224 000	5
6		1 970 B			10.0	2 510	1 470 S	319 000	14.0	3 380	553 S	161 000	6
7		1 870 B			11.0	2 510	5 250 S	1 140 000	14.0	2 940	428 S	109 000	7
8		1 760 B			9.0	2 550	7 410 S	1 630 000	14.0	2 620	361 S	81 700	8
9		1 750 B			9.0	2 730	7 060 S	1 670 000	14.0	2 220	386 S	74 000	9
10		1 770 B			9.0	3 260	2 200 S	620 000	14.0	2 090	273 S	49 300	10
11		1 720 B			9.5	3 490	1 230 S	371 000		1 920	217	36 000	11
12		1 720 B			11.0	3 470	1 160 S	348 000		1 860	190	30 500	12
13		1 700 B			11.0	3 060	1 320 S	349 000	14.0	1 920	182 S	30 200	13
14		1 740 B			10.0	2 910	619 S	156 000		1 860	187	30 100	14
15		1 720			12.0	2 950	491 S	125 000		1 920	188	31 200	15
16		1 730			11.0	3 280	502 S	142 000		1 920	182	30 200	16
17		1 700			12.0	3 230	563 S	157 000	15.0	1 960	169 S	28 600	17
18		1 700			12.0	3 110	579 S	156 000	15.0	2 010	158 S	27 400	18
19		1 840			13.0	3 270	498 S	141 000	15.0	2 050	165 S	29 200	19
20		1 960			14.0	3 340	438 S	126 000	14.0	1 960	188 S	31 800	20
21		2 240			14.0	3 570	473 S	146 000		1 780	160	24 600	21
22		2 410			12.3	3 820	718 S	237 000	16.0	1 670	115 S	16 600	22
23		2 670			14.0	4 060	1 070 S	375 000		1 620	104	14 600	23
24		2 790			15.0	4 230	1 310 S	479 000		1 560	112	15 100	24
25		3 100			14.5	3 970	1 220 S	418 000	17.0	1 580	112 S	15 300	25
26		3 860			15.0	3 730	1 070 S	345 000	15.0	1 520	108 S	14 200	26
27		3 790			14.0	3 750	858 S	278 000		1 530	109	14 400	27
28		3 380			14.0	4 330	1 220 S	456 000		1 530	100	13 200	28
29		3 100			13.0	4 350	1 180 S	443 000	17.0	1 560	99 S	13 300	29
30		2 250			14.0	3 780	897 S	293 000	18.0	1 420	95 S	11 700	30
31					16.0	3 480	696 S	209 000					31
TOTAL		68 460				100 400		14 749 000		67 640		2 499 200	TOTAL
MEAN		2 280				3 240		476 000		2 250		83 300	MEAN

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1 370	89	10 500	18.0	1 950	852 S	144 000		871	56 S	4 210	1
2	17.0	1 490	96 S	12 400		2 280	446	87 900	11.0	1 010	56 S	4 890	2
3		1 640	99	14 000		2 030	152	26 700	11.5	1 130	51 S	4 980	3
4		1 400	86	10 400	19.0	2 030	119 S	20 900		1 120	38	3 680	4
5		1 420	79	9 690	14.0	1 940	105 S	17 600	11.0	1 180	28 S	2 850	5
6		1 480	73	9 330		1 460	79	9 970		1 360	25	2 940	6
7		1 280	61	6 750	19.0	1 360	50 S	5 880	13.0	1 460	42 S	5 300	7
8		1 250	48	5 180		1 250	45	4 860	19.0	1 370	27 S	3 200	8
9		1 190	44	4 520		1 030	43	3 830		1 350	20	2 330	9
10	16.0	1 110	59 S	5 660		934	39	3 150		1 260	19	2 070	10
11		949	67	5 490	22.0	937	35 S	2 830		1 300	21	2 360	11
12		943	72	5 870		1 020	33	2 910	13.0	1 360	24 S	2 820	12
13		997	83	7 150	18.0	982	32 S	2 720		1 370	20	2 370	13
14		949	87	7 130		1 020	32	2 820		1 350	16	1 870	14
15		919	78	6 190	20.0	957	34 S	2 810	14.0	1 320	14 S	1 600	15
16		1 050	71	6 440		1 050	37	3 360		1 310	15	1 700	16
17	19.0	1 210	109 S	11 400		881	39	2 970	15.0	1 350	18 S	2 100	17
18		1 510	277	36 100	17.0	714	40 S	2 470		1 250	18	1 940	18
19		1 300	194	21 800	18.0	753	36 S	2 340	14.0	1 250	16 S	1 730	19
20		988	108	9 220		929	31	2 490	14.0	1 280	17 S	1 880	20
21		971	95	7 970		957	25	2 070		1 260	17	1 850	21
22		1 720	109	16 200	18.0	1 050	22 S	2 000	11.0	1 240	16 S	1 710	22
23		2 030	117	20 500		981	22	1 860		1 500	17	2 200	23
24		2 000	126	21 800	18.0	820	24 S	1 700		1 610	22	3 060	24
25		1 850	126	20 100	19.0	807	24 S	1 670	11.5	1 570	28 S	3 800	25
26		1 770	130	19 900	18.0	930	37 S	2 970		1 550	29	3 880	26
27	19.0	1 870	157 S	25 400		901	39	3 040		1 520	29	3 810	27
28		1 770	155	23 700		821	27	1 920		1 520	25	3 280	28
29		1 820	126	19 800	13.0	859	26 S	1 930	11.0	1 510	20 S	2 610	29
30	18.0	1 850	102 S	16 300		977	32	2 700		1 510	19	2 480	30
31		2 090	228	41 200	12.0	870	44 S	3 310					31
TOTAL		44 186		438 090		35 480		377 680		40 041		85 500	TOTAL
MEAN		1 430		14 100		1 140		12 200		1 330		2 850	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	9.0	1 510	20 S	2 610		1 480				1 780			1
2	9.0	1 540	30 S	3 990		1 270				1 810			2
3		1 510	37	4 830		1 490				1 780			3
4		1 600	38	5 250		1 710				1 770			4
5		1 550	36	4 820		1 790				1 790			5
6	9.0	1 680	31 S	4 500		1 740				1 850			6
7		1 570	29	3 930		1 860				1 750			7
8		1 500	27	3 500		1 760				1 640			8
9		1 600	26	3 590		1 830				1 730			9
10		1 600	23	3 180		1 820				1 360			10
11		1 590	21	2 880		1 790				1 390			11
12		1 590	19	2 610		1 790				1 500			12
13	9.0	1 590	18 S	2 470		1 690				1 470			13
14		1 580	18	2 460		1 680				1 450			14
15		1 510	19	2 480		1 820				1 570			15
16		1 560	21	2 830		1 840				1 750 B			16
17		1 580	22	3 000		1 830				1 830 B			17
18		1 570	23	3 120		1 770				1 790 B			18
19		1 540	22	2 930		1 770				1 840 B			19
20		1 550	23	3 080		1 720				1 900 B			20
21	6.0	1 590	25 S	3 430		1 810				1 620			21
22		1 580	26	3 550		1 790				1 410			22
23		1 550	26	3 480		1 580				1 590			23
24		1 560	26	3 500		1 600				1 450			24
25		1 600	26	3 590		1 770				1 260			25
26		1 450	26	3 260		1 800				1 500			26
27		1 410	26	3 170		1 710				1 120 B			27
28		1 610	26	3 620		1 610				913 B			28
29		1 620	26	3 640		1 670				1 310			29
30		1 590	26	3 570		1 700				1 670			30
31		1 550	26	3 480						1 960			31
TOTAL		48 430		106 350		51 490				49 553			TOTAL
MEAN		1 560		3 430		1 720				1 600			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 7 410 ON MAY 08

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 1 670 000 ON MAY 09

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 14 41 N
LONG 117 18 46 W
DRAINAGE AREA 186 000 km²
REGULATED FLOW SINCE 1968

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 06	15:45	2 510 H	10.0	1 280 K	7	12	23	37	71	95	99	100				BNW
MAY 11	18:45	3 490 H	10.0	1 280 K	9	14	26	43	69	90	94	98	100			BNW
MAY 17	16:50	3 230 H	12.0	584 K	10	16	27	46	71	91	97	98	100			BNW
MAY 22	13:00	3 920	10.5	761 R	10	14	23	37	56	81	95	99	100			BNW
MAY 25	15:40	3 970 H	16.0	1 140 K	12	16	27	46	64	85	96	99	100			BNW
MAY 25	15:45	3 970 H	16.0	1 180 K	13	16	28	45	65	87	98	100				BNW
MAY 29	16:40	4 350 H	13.0	1 160 K	13	16	27	47	66	83	94	98	100			BNW
MAY 29	16:45	4 350 H	13.0	1 170 K	12	16	27	44	65	86	95	99	100			BNW
JUN 03	15:40	4 330 H	16.0	1 240 K	11	16	27	41	56	83	95	99	100			BNW
JUN 03	15:45	4 330 H	16.0	1 230 K	6	11	19	34	54	84	94	99	100			BNW
AUG 01	07:40	1 950 H	18.0	857 K	26	32	47	62	76	87	95	99	100			BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		9.80 B				8.50 B				18.0 B			1
2		10.0 B				8.70 B				17.5 B			2
3		10.2 B				8.80 B				16.8 B			3
4		10.5 B				8.60 B				16.6 B			4
5		10.8 B				8.50 B				16.5 B			5
6		11.0 B				8.50 B				16.5 B			6
7		11.0 B				8.10 B				16.2 B			7
8		11.0 B				7.70 B				16.0 B			8
9		10.9 B				7.50 B				16.0 B			9
10		11.0 B				7.60 B				16.2 B			10
11		11.0 B				7.90 B				16.5 B			11
12		11.0 B				8.00 B				17.0 B			12
13		11.2 B				11.3 B				17.3 B			13
14		11.4 B				12.4 B				18.0 B			14
15		11.5 B				13.5 B				19.0 B			15
16		11.6 B				15.0 B				21.0 B			16
17		11.6 B				16.5 B				23.0 B			17
18		11.8 B				19.0 B				25.0 B			18
19		12.0 B				20.5 B				28.0 B			19
20		12.0 B				21.0 B				32.0 B			20
21		11.8 B				19.7 B				39.0 B			21
22		11.3 B				18.5 B				43.0 B			22
23		10.8 B				17.7 B				50.0 B			23
24		10.2 B				17.4 B				58.0 B			24
25		9.60 B				17.5 B				59.0 B			25
26		9.40 B				18.0 B				58.0 B			26
27		9.20 B				18.8 B				54.0 B			27
28		9.14 B				18.5 B				52.0 B			28
29		8.50 B								53.0 B			29
30		8.40 B								60.5 B			30
31		8.40 B							2.2	70.0 B	628 S	3 800	31
TOTAL		328.0				373.70				979.6			TOTAL
MEAN		10.6				13.3				31.6			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	2.2	67.0	448 S	2 590		21.4	10	18.5	17.2	160	310 S	4 290	1
2	5.0	66.5	259 S	1 490		20.6	9	16.0	18.3	168	286 S	4 150	2
3	4.4	65.6	204 S	1 160		19.5	11	18.5	17.2	200	346 S	5 980	3
4	3.2	64.1	204 S	1 130	7.0	19.5	16 S	27.0		200	346	5 980	4
5	2.8	56.5	146 S	713		22.7	94	184		187	285	4 600	5
6	5.0	48.6	236 S	991		48.1	7 240	30 100	18.3	165	230 S	3 280	6
7	5.6	43.0	146 S	542	9.4	67.7	17 900 S	105 000		142	176	2 160	7
8	6.7	38.0	66 S	217	12.2	56.1	5 760 S	27 900	17.8	132	144 S	1 640	8
9	6.7	34.1	49 S	144		89.2	2 250	17 300	17.8	120	144 S	1 490	9
10	7.8	30.3	33 S	86.4	12.8	130	2 450 S	27 500		108	146	1 360	10
11		28.0	23	55.6	12.8	159	1 870 S	25 700	18.3	102	139 S	1 220	11
12	3.9	26.9	25 S	58.1		189	1 410	23 000		96.7	129	1 080	12
13	6.1	24.9	25 S	53.8	13.0	191	1 110 S	18 300		95.2	114	938	13
14	7.2	23.4	27 S	54.6	13.5	169	761 S	11 100	15.6	91.7	90 S	713	14
15	11.0	22.3	26 S	50.1		141	503	6 130		89.3	80	617	15
16		20.1	18	31.3		124	311	3 330		102	95	837	16
17	12.2	19.7	17 S	28.9		143	328	4 050	17.2	111	112 S	1 070	17
18		19.1	14	23.1	11.7	162	550 S	7 700		104	102	917	18
19		19.6	12	20.3	15.0	154	475 S	6 320		97.1	77	646	19
20		20.2	14	24.4		157	438	5 940	18.9	89.9	54 S	419	20
21	14.4	21.2	17 S	31.1	17.2	165	441 S	6 290		82.7	51	364	21
22		22.3	17	32.8		167	470	6 780		77.3	54	361	22
23	16.0	23.9	18 S	37.2	17.2	205	618 S	10 900	19.4	72.7	58 S	364	23
24		24.1	18	37.5		300	1 410	36 500		69.8	61	368	24
25		23.8	19	39.1	15.8	277	1 330 S	31 800		66.9	62	358	25
26	11.7	23.0	19 S	37.8		286	1 340	33 100		63.6	59	324	26
27		22.9	18	35.6	16.7	285	1 570 S	38 700	19.4	60.9	52 S	274	27
28	14.4	25.0	17 S	36.7		282	1 490	36 300		59.7	41	211	28
29		24.4	12	25.3		242	1 180	24 700	22.2	64.1	31 S	172	29
30	17.0	22.5	11 S	21.4		195	745	12 600	21.0	70.3	55 S	334	30
31					16.7	160	374 S	5 170					31
TOTAL		971.0		9 798.1		4 647.8		562 474.0		3 248.9		46 517	TOTAL
MEAN		32.4		327		150		18 100		108		1 550	MEAN

ALBERTA

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		66.5	93	534	15.0	669	2 560 S	148 000		61.9	33	176	1
2	22.2	61.5	86 S	457	16.4	673	2 240 S	130 000	15.6	67.6	90 S	526	2
3		63.8	54	298	17.8	503	874 S	38 000		67.6	114	666	3
4		82.4	77	548	19.4	402	744 S	25 800		63.7	85	468	4
5	23.0	81.3	53 S	372	19.4	347	414 S	12 400		61.1	47	248	5
6		80.2	77	534	20.0	313	300 S	8 110	15.6	58.3	14 S	70.5	6
7		84.5	153	1 120	20.6	268	238 S	5 510		57.0	18	88.6	7
8	17.2	87.1	237 S	1 780		226	185 S	3 610		59.1	36	184	8
9	17.2	84.0	166 S	1 200	20.6	198	128 S	2 190		55.2	31	148	9
10		80.9	103	720	23.3	186	109 S	1 750		51.7	23	103	10
11	17.2	72.9	43 S	271	22.8	164	134 S	1 900		49.3	16	68.2	11
12		64.5	29	162	23.3	144	100 S	1 240	17.2	48.1	8 S	33.2	12
13		59.5	27	139	22.8	132	77 S	878		46.9	7	28.4	13
14		56.4	26	127		122	67	706		45.5	6	23.6	14
15	20.0	55.7	38 S	183		115	63	626	17.8	44.4	6 S	23.0	15
16	20.0	147	703 S	8 930	22.2	109	54 S	509		43.9	6	22.8	16
17	17.2	319	1 010 S	27 800	23.9	104	55	494	18.9	42.8	7 S	25.9	17
18	18.6	294	553 S	14 000	23.9	99.7	89 S	767		41.8	7	25.3	18
19	20.6	247	312 S	6 660	23.9	97.8	71	600		41.0	15	53.1	19
20		215	238	4 420	23.9	97.1	41 S	344	14.4	43.7	102 S	385	20
21	21.7	191	260 S	4 290	21.1	91.7	15	119	15.6	44.4	180 S	691	21
22	21.7	184	160 S	2 540	21.1	86.5	15 S	112		46.4	148	593	22
23	19.4	168	168 S	2 440	21.7	85.9	17 S	126	14.4	51.5	116 S	516	23
24	18.3	189	179 S	2 920	21.0	82.6	18 S	128		50.3	103	448	24
25	17.8	217	290 S	5 440		76.9	18	120		47.7	87	359	25
26	16.7	317	863 S	23 600		72.3	17	106		45.3	69	270	26
27	16.7	313	770 S	20 800	23.9	69.4	16 S	95.9		43.1	52	194	27
28	19.4	255	367 S	8 090		67.0	14	81.0		40.9	34 S	120	28
29	20.0	224	1 210 S	23 400		65.8	19	108		40.9	23	81.3	29
30	19.4	222	1 320 S	25 300	17.8	64.7	26 S	145		39.9	16	55.2	30
31	17.8	306	689 S	18 200		63.2	25	137					31
TOTAL		4 889.2		207 275		5 795.6		384 711.9		1 501.0		6 694.1	TOTAL
MEAN		158		6 690		187		12 400		50.0		223	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	11.7	38.7	11 S	36.8		28.8	4	9.95		14.7 B			1
2		37.6	8	26.0	5.0	29.3	4 S	10.1		13.5 B			2
3		36.4	6	18.9		28.5				10.7 B			3
4	7.8	35.6	4 S	12.3		28.1				11.0 B			4
5		35.1	4	12.1		27.8				12.5 B			5
6		36.2	4	12.5		27.2				12.2 B			6
7		34.8	4	12.0		26.4				11.0 B			7
8		34.6	4	12.0		25.4				11.8 B			8
9		35.0	4	12.1		21.7				12.0 B			9
10		32.7	4	11.3		23.2				11.5 B			10
11		28.8	4	9.95		25.6				11.0 B			11
12		28.5	4	9.85		25.0				11.6 B			12
13		29.5	4	10.2		23.7				10.0 B			13
14		29.2	4	10.1		22.1				9.00 B			14
15	7.8	28.5	4 S	9.85		26.2				8.00 B			15
16		28.6	4	9.88		23.5				9.31 B			16
17		28.7	4	9.92		21.2				10.0 B			17
18		29.4	4	10.2		21.5				10.5 B			18
19		29.4	4	10.2		26.0 B				11.0 B			19
20		28.9	4	9.99		25.0 B				11.2 B			20
21		28.0	4	9.68		21.4 B				10.4 B			21
22		27.0	4	9.33		22.2 B				10.0 B			22
23		26.7	4	9.23		20.0 B				9.60 B			23
24		27.3	4	9.43		18.5 B				9.00 B			24
25		25.8	4	8.92		20.0 B				8.80 B			25
26		26.7	4	9.23		18.3 B				8.50 B			26
27		27.4	4	9.47		16.7 B				8.00 B			27
28		27.9	4	9.64		15.5 B				8.00 B			28
29		28.4	4	9.82		14.0 B				7.80 B			29
30		28.5	4	9.85		13.5 B				7.50 B			30
31		29.2	4	10.1						7.00 B			31
TOTAL		949.1		370.84		686.3				317.11			TOTAL
MEAN		30.6		12.0		22.9				10.2			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 17 900 ON MAY 07

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 148 000 ON AUG 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 28 08 N
LONG 112 42 30 W
DRAINAGE AREA 24 800 km²
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 07	16:45	67.7 H	9.4	11 100 K	57	67	80	92	98	99	100					BNW
MAY 14	11:50	172	13.0	733 R	8	13	21	31	42	58	87	97	99	100		BNW
JUL 10	08:45	294 H	17.2	503 K	28	39	60	80	88	93	96	99	100			BNW
JUL 27	16:50	313 H	16.7	605 K	24	35	57	81	91	95	97	99	100			BNW
JUL 30	08:10	222 H	19.4	1 190 K	18	35	59	82	92	97	99	100				BNW
AUG 01	18:15	759	15.0	3 190 K	18	29	45	62	79	87	91	96	98	99	100	BNW
AUG 02	13:00	673 H	16.0	1 390 K	26	37	56	91	96	99	100					BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		10.8 B				9.90 B				9.60 B			1
2		10.5 B				9.80 B				9.90 B			2
3		10.1 B				9.50 B				10.1 B			3
4		10.2 B				9.00 B				10.6 B			4
5		10.4 B				8.60 B				11.0 B			5
6		10.6 B				8.40 B				11.4 B			6
7		10.4 B				8.10 B				11.6 B			7
8		10.2 B				7.90 B				11.8 B			8
9		10.1 B				7.60 B				12.0 B			9
10		10.0 B				7.30 B				12.1 B			10
11		9.90 B				7.10 B				12.2 B			11
12		9.80 B				7.00 B				12.4 B			12
13		9.70 B				6.90 B				12.8 B			13
14		9.60 B				7.00 B				13.4 B			14
15		9.60 B				7.20 B				14.0 B			15
16		9.80 B				7.40 B				15.0 B			16
17		9.90 B				7.80 B				16.2 B			17
18		10.0 B				8.00 B				17.5 B			18
19		10.3 B				8.10 B				19.5 B			19
20		10.9 B				8.60 B				21.0 B			20
21		11.0 B				8.90 B				23.0 B			21
22		11.0 B				9.00 B				25.0 B			22
23		11.0 B				9.10 B				28.5 B			23
24		11.0 B				9.20 B				32.0 B			24
25		10.9 B				9.20 B				34.0 B			25
26		10.8 B				9.30 B				35.0 B			26
27		10.6 B				9.40 B				35.0 B			27
28		10.3 B				9.40 B				33.0 B			28
29		10.1 B								33.0 B			29
30		10.0 B								34.0 B			30
31		10.0 B								38.0 B			31
TOTAL		319.50				234.70				614.60			TOTAL
MEAN		10.3				8.38				19.8			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
		42.0 B	30	109	12.0	18.2	10 S	15.7	12.0	157	316 S	4 290	1
2	1.0	44.0 B	30 S	114		18.3	9	14.2	15.0	185	443 S	7 080	2
3	1.0	43.0 B	35 S	130	10.0	21.4	12 S	22.2	14.0	177	354 S	5 410	3
4	1.0	36.0 B	67 S	208		21.4	13	24.0	13.0	167	275 S	3 970	4
5	1.0	30.0 B	81 S	210	8.0	21.0	10 S	18.1	13.0	146	177 S	2 230	5
6	4.0	27.0 B	62 S	145		26.5	11	25.2	14.0	128	142 S	1 570	6
7	4.0	25.5	33 S	72.7	7.0	37.1	87 S	279	13.0	119	135 S	1 390	7
8	6.0	22.7	22 S	43.1	7.0	72.7	253 S	1 590	13.0	108	114 S	1 060	8
9	4.0	20.3	15 S	26.3	8.0	110	374 S	3 550	12.0	95.9	90 S	746	9
10	6.0	19.6	11 S	18.6	10.0	146	512 S	6 460	12.0	91.0	84 S	660	10
11	3.0	18.3	9 S	14.2	10.0	175	529 S	8 000	13.0	87.3	61 S	460	11
12	3.0	17.4	9 S	13.5	9.0	174	347 S	5 220	12.0	86.2	55 S	410	12
13	6.0	16.0	12 S	16.6	12.0	149	224 S	2 880	12.0	82.1	52 S	369	13
14	6.0	15.5	7 S	9.37	12.0	125	146 S	1 580	11.0	82.2 A	54 S	384	14
15	6.0	15.1	7 S	9.13	10.0	112	110 S	1 060	11.0	98.8 A	104 S	888	15
16	7.0	16.0	5 S	6.91	7.0	141	373 S	4 540	13.0	105 A	98 S	889	16
17		17.0	4	5.88	8.0	146	305 S	3 850	13.0	97.2 A	79 S	663	17
18	7.0	17.8	4 S	6.15	11.0	140	235 S	2 840	11.0	89.6	50 S	387	18
19	11.0	18.6	6 S	9.64	12.0	147	276 S	3 510	13.0	82.1	41 S	291	19
20		19.9	5	8.60	13.0	154	393 S	5 230	14.0	75.1	33 S	214	20
21	10.0	20.9	7 S	12.6	14.0	157	357 S	4 840	13.0	70.1	24 S	145	21
22		21.3	10	18.4	13.0	206	743 S	13 200	14.0	66.1	26 S	148	22
23	9.0	20.9	14 S	25.3	11.0	296	2 100 S	53 700	13.0	62.6	23 S	124	23
24		20.8	9	16.2	11.0	268	1 090 S	25 200	14.0	59.5	18 S	92.5	24
25	9.0	21.9	9 S	17.0	13.0	275	1 040 S	24 700	15.0	55.6	14 S	67.3	25
26		24.2	15	31.4	13.0	263 A	1 150 S	26 100	16.0	52.6	14 S	63.6	26
27	8.0	22.3	14 S	27.0	13.0	266 A	1 060 S	24 400	15.0	55.8	16 S	77.1	27
28		20.3	13	22.8	12.0	224 A	738 S	14 300	13.0	64.6	27 S	151	28
29	10.0	19.7	11 S	18.7	13.0	172	449 S	6 670	14.0	62.1	27 S	145	29
30		18.8	10	16.2	14.0	142	319 S	3 910	15.0	56.2	17 S	82.5	30
31					14.0	144	292 S	3 630					31
TOTAL		692.8		1 382.28		4 368.6		251 358.4		2 864.7		34 457.0	TOTAL
MEAN		23.1		46.1		141		8 110		95.5		1 150	MEAN

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	15.0	56.3	18 S	87.6	15.0	557	1 450 S	69 800	13.0	59.5	36 S	185	1
2	15.0	69.3	57 S	341	16.0	411	751 S	26 700		60.4	24	125	2
3	15.0	78.4	79 S	535	17.0	342	518 S	15 300	11.0	57.2	19 S	93.9	3
4	17.0	73.5	47 S	298	15.0	305	359 S	9 460		54.0	19	88.6	4
5	18.0	78.3	55 S	372	14.0	279	325 S	7 830	13.0	52.4	19 S	86.0	5
6	16.0	79.0	66 S	450	16.0	241	254 S	5 290		56.2	27	131	6
7	15.0	81.3	77 S	541	17.0	205	185 S	3 280	13.0	53.9	22 S	102	7
8	11.0	77.1	65 S	433	17.0	181	166 S	2 600		48.5	15	62.9	8
9	13.0	75.1	51 S	331	16.0	170	159 S	2 340	15.0	45.2	10 S	39.1	9
10	14.0	64.6	32 S	179	18.0	150	124 S	1 610		45.3	8	31.3	10
11	13.0	58.1	24 S	120	18.0	135	114 S	1 330	15.0	46.2	7 S	27.9	11
12	15.0	54.4	19 S	89.3	19.0	125	153 S	1 650		44.3	6	23.0	12
13	17.0	52.1	19 S	85.5	18.0	115	103 S	1 020	15.0	42.3	12 S	43.9	13
14	17.0	57.7	37 S	184	17.0	109	77 S	725		41.9	5	18.1	14
15	14.0	185	772 S	12 300	17.0	103	68 S	605	12.0	40.4	5 S	17.5	15
16	13.0	278	930 S	22 300	17.0	97.2	65 S	546		38.5	4	13.3	16
17	14.0	246	482 S	10 200	18.0	93.4	52 S	420	13.0	36.7	6 S	19.0	17
18	16.0	212	289 S	5 290	16.0	94.7	45 S	368		36.2	7	21.9	18
19	17.0	183	227 S	3 590	17.0	90.8	39 S	306	14.0	35.9	7 S	21.7	19
20	17.0	168	232 S	3 370	17.0	84.4	35 S	255		39.5	5	17.1	20
21	16.0	162	213 S	2 980	17.0	81.3	32 S	225	15.0	46.5	7 S	28.1	21
22	15.0	159	220 S	3 020	16.0	80.6	25 S	174	11.0	46.3	6 S	24.0	22
23	15.0	175	274 S	4 140	16.0	73.9	20 S	128		43.3	7	26.2	23
24	13.0	223	358 S	6 900	18.0	68.8	15 S	89.2	9.0	40.6	8 S	28.1	24
25	12.0	309	857 S	22 900		65.3	16	90.3		38.3	6	19.9	25
26	14.0	295	679 S	17 300	18.0	62.6	23 S	124	7.0	36.2	5 S	15.6	26
27	16.0	234	411 S	8 310		61.3	16	84.7		36.0	7	21.8	27
28	17.0	199	309 S	5 310	18.0	60.8	14 S	73.5	6.0	34.8	8 S	24.1	28
29	16.0	192	267 S	4 430		58.6	15	75.9		33.1	7	20.0	29
30	15.0	247	640 S	13 700	13.0	56.3	13 S	63.2	7.0	31.8	6 S	16.5	30
31	12.0	553	3 090 S	148 000		59.4	31	159					31
TOTAL		4 975.2		298 086.4		4 617.4		152 721.8		1 321.4		1 392.5	TOTAL
MEAN		160		9 620		149		4 930		44.0		46.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		30.7	6	15.9		26.4				11.0 B			1
2	10.0	29.7	6 S	15.4		25.9				11.2 B			2
3		29.9	6	15.5		25.5				11.2 B			3
4	7.0	30.9	5 S	13.3		24.9				10.8 B			4
5		29.1	5	12.6		24.4				9.90 B			5
6	6.0	27.9	6 S	14.5		22.7				9.20 B			6
7		27.7	6	14.4		20.9				8.60 B			7
8	8.0	28.9	6 S	15.0		21.1				8.10 B			8
9		27.5	7	16.6		20.8				7.50 B			9
10	5.0	27.1	8 S	18.7		21.4				7.10 B			10
11		27.4	7	16.6		20.0				6.60 B			11
12	6.0	27.3	5 S	11.8		22.6				6.20 B			12
13		27.4	6	14.2		24.3				5.80 B			13
14	5.0	27.5	6 S	14.3		20.6				5.40 B			14
15		28.0	7	16.9		17.6				5.20 B			15
16	6.0	28.5	8 S	19.7		18.1				4.80 B			16
17		28.5	7	17.2		16.5				4.70 B			17
18	4.0	28.0	6 S	14.5		13.6				4.70 B			18
19		27.5	7	16.6		12.3 B				4.80 B			19
20	5.0	26.9	7 S	16.3		11.0 B				4.90 B			20
21		26.8	7	16.2		9.90 B				5.00 B			21
22	2.0	26.2	6 S	13.6		9.30 B				5.00 B			22
23		24.9	5	10.8		8.80 B				4.90 B			23
24	3.0	25.7	5 S	11.1		8.50 B				4.80 B			24
25		27.3	4	9.43		8.20 B				4.80 B			25
26	3.0	27.6	4 S	9.54		7.80 B				4.70 B			26
27		27.9	4	9.64		7.80 B				4.60 B			27
28	5.0	28.4	5 S	12.3		8.20 B				4.50 B			28
29		28.7	4	9.92		9.00 B				4.40 B			29
30	4.0	30.6	4 S	10.6		9.70 B				4.30 B			30
31		28.3	4	9.78						4.30 B			31
TOTAL		868.8		432.91		497.80				199.00			TOTAL
MEAN		28.0		14.0		16.6				6.42			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 3 090 ON JUL 31

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 148 000 ON JUL 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 16 35 N
LONG 113 48 45 W
DRAINAGE AREA 11 600 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 11	16:30	175 H	10.0	437 K	10	18	34	50	63	77	92	98	100			BNW
MAY 23	14:25	308	11.0	1 450 R	15	25	38	56	68	81	90	97	99	100		BNW
MAY 26	08:40	263 H	12.0	1 250 K	24	32	48	65	77	90	97	99	100			BNW
JUL 16	09:45	278 H	9.0	1 030 K	21	31	48	66	78	87	95	98	99	100		BNW
JUL 25	08:50	309 H	12.0	909 K	18	29	43	63	78	87	94	98	99	100		BNW
JUL 31	17:15	605	15.0	3 130 R	15	25	36	50	63	76	89	96	99	100		BNW
AUG 01	11:00	584	14.0	1 310 R	20	29	44	59	71	81	91	97	99	99		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		12.5 B				8.40 B				22.3 B			1
2		12.8 B				8.70 B				22.5 B			2
3		12.9 B				8.90 B				22.9 B			3
4		12.7 B				9.20 B				23.5 B			4
5		12.4 B				9.50 B				23.5 B			5
6		12.0 B				9.60 B				23.0 B			6
7		11.7 B				9.30 B				22.7 B			7
8		11.5 B				8.70 B				22.4 B			8
9		11.3 B				8.20 B				22.5 B			9
10		11.4 B				7.90 B				22.5 B			10
11		11.3 B				7.70 B				25.6 B			11
12		11.0 B				7.60 B				30.0 B			12
13		10.6 B				7.50 B				37.2 B			13
14		10.2 B				7.50 B				37.0 B			14
15		9.80 B				7.40 B				35.0 B			15
16		9.60 B				7.50 B				33.0 B			16
17		9.40 B				7.78 B				32.1 B			17
18		9.30 B				8.90 B				30.6 B			18
19		9.30 B				11.0 B				29.8 B			19
20		9.50 B				13.6 B				30.0 B			20
21		10.0 B				17.0 B				36.0 B			21
22		10.8 B				21.0 B				42.2 B			22
23		10.7 B				24.5 B				50.0 B			23
24		10.5 B				26.0 B				57.0 B			24
25		10.3 B				25.1 B			1.0	64.5 A	470 S	2 620	25
26		10.0 B				24.1 B			4.0	71.9	672 S	4 170	26
27		9.33 B				23.5 B			6.0	68.3	564 S	3 330	27
28		9.10 B				22.8 B			8.0	68.3	411 S	2 430	28
29		8.60 B							6.0	66.5	431 S	2 480	29
30		8.40 B							9.0	64.4	384 S	2 140	30
31		8.30 B								60.7	325 S	1 700	31
TOTAL		327.23				358.88				1 197.9			TOTAL
MEAN		10.6				12.8				38.6			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	8.0	60.6	378 S	1 980	16.0	25.0	49 S	106	20.0	224	1 080 S	20 900	1
2	8.0	77.0	596 S	3 970	14.0	25.4	56 S	123	18.0	186	914 S	14 700	2
3	8.0	78.1	557 S	3 760	13.0	27.3	42 S	99.1	21.0	161	726 S	10 100	3
4	8.0	74.5	586 S	3 510	15.0	26.1	33 S	74.4	20.0	162	597 S	8 360	4
5	7.0	71.6	629 S	3 890	13.0	25.2	27 S	58.8	20.0	173	586 S	8 760	5
6	6.0	70.3	590 S	3 580	10.0	25.9	32 S	71.6	19.0	203	826 S	14 500	6
7	5.0	68.3	368 S	2 170		26.0	46	103	17.0	197	902 S	15 400	7
8	7.0	63.1	291 S	1 590	12.0	27.1	91 S	213	18.0	185	707 S	11 300	8
9	7.0	55.3	154 S	736		32.5	1 240	3 480	20.0	167	496 S	7 160	9
10	7.0	50.4	161 S	701	13.0	72.6	1 880 S	11 800	18.0	151	376 S	4 910	10
11	8.0	46.5	134 S	538	14.0	70.6	6 440 S	39 300	20.0	141	433 S	5 270	11
12	6.0	42.5	96 S	353		87.9	9 280	70 500	12.0	133	449 S	5 160	12
13	7.0	38.9	99 S	333	16.0	138	3 810 S	45 400	13.0	125	459 S	4 960	13
14	9.0	36.4	91 S	286	17.0	170	1 990 S	29 200	12.0	126	450 S	4 900	14
15	10.0	33.8	80 S	234	14.0	196	1 940 S	32 900	19.0	124	487 S	5 220	15
16	12.0	31.6	123 S	336	10.0	194	1 240 S	20 800	17.0	120	602 S	6 240	16
17	14.0	30.0	86 S	223	12.0	177	1 190 S	18 200	14.0	115	469 S	4 660	17
18	14.0	28.4	50 S	123	14.0	152	954 S	12 500	15.0	110	364 S	3 460	18
19	13.0	27.4	44 S	104	17.0	133	747 S	8 580	19.0	118	379 S	3 860	19
20	12.0	25.2	47 S	102	18.0	152	935 S	12 300	18.0	126	372 S	4 050	20
21	14.0	24.8	43 S	92.1	18.0	165	981 S	14 000	17.0	121	347 S	3 630	21
22	16.0	24.3	30 S	63.0	18.0	158	783 S	10 700	19.0	115	282 S	2 800	22
23	15.0	23.7	45 S	92.1	19.0	162	618 S	8 650	18.0	109	239 S	2 250	23
24	14.0	23.6	100 S	204	20.0	167	613 S	8 840	19.0	103	225 S	2 000	24
25	14.0	23.7	71 S	145	21.0	171	704 S	10 400	23.0	97.4	232 S	1 950	25
26	16.0	23.9	39 S	80.5	19.0	246	1 600 S	34 000	23.0	90.3	228 S	1 780	26
27	18.0	24.9	43 S	92.5	19.0	289	1 560 S	39 000	18.0	86.0	211 S	1 570	27
28	15.0	25.7	69 S	153	20.0	274	1 520 S	36 000	12.0	84.4	202 S	1 470	28
29	15.0	25.8	46 S	103	18.0	283	1 480 S	36 200	20.0	83.7	224 S	1 620	29
30	14.0	25.3	36 S	78.7	20.0	273	1 360 S	32 100	22.0	84.6	461 S	3 370	30
31					20.0	263	1 140 S	25 900					31
TOTAL		1 255.6		29 622.9		4 234.6		561 598.9		4 021.4		186 310	TOTAL
MEAN		41.9		987		137		18 100		134		6 210	MEAN

ALBERTA

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	20.0	81.1	531 S	3 720	20.0	241	827 S	17 200	13.0	73.6	180 S	1 140	1
2		83.3	682	4 910		257	848	18 800		71.9	186	1 160	2
3	21.0	95.1	1 120 S	9 200	21.0	508	1 740 S	76 400	11.0	70.6	176 S	1 070	3
4	20.0	87.3	1 040 S	7 840	18.0	648	2 250 S	126 000		69.1	163	973	4
5	21.0	83.4	412 S	2 970	20.0	523	1 720 S	77 700		71.4	197 S	1 220	5
6	23.0	78.2	326 S	2 200	21.0	428	1 170 S	43 300		75.7	226	1 480	6
7		88.0	475	3 610	21.0	357	984 S	30 400	18.0	72.8	221 S	1 390	7
8	17.0	94.3	471 S	3 840	21.0	298	742 S	19 100		69.2	180	1 080	8
9	21.0	90.8	288 S	2 260	20.0	306	632 S	16 700	21.0	66.6	154 S	886	9
10	18.0	95.5	266 S	2 190	19.0	258	535 S	11 900		63.2	132	721	10
11	20.0	99.1	320 S	2 740	23.0	226	484 S	9 450	20.0	63.5	127 S	697	11
12	21.0	96.4	400 S	3 330	23.0	208	425 S	7 640		62.8	112	608	12
13	22.0	91.9	452 S	3 590	20.0	191	376 S	6 200	11.0	60.4	84 S	438	13
14	20.0	88.1	288 S	2 190	21.0	171	368 S	5 440		57.4	68	337	14
15		82.8	229 S	1 640	22.0	154	354 S	4 710	17.0	55.7	83 S	399	15
16	21.0	75.3	207 S	1 350	25.0	143	284 S	3 510		54.5	90	424	16
17	22.0	72.4	191 S	1 190	26.0	137	258 S	3 050	19.0	53.5	90 S	416	17
18	24.0	70.5	189 S	1 150	23.0	130	256 S	2 880		52.3	104	470	18
19	24.0	186	2 110 S	33 900	22.0	125	259 S	2 800	17.0	50.6	137 S	599	19
20	23.0	311	1 780 S	47 800	20.0	122	257 S	2 710		49.7	134	575	20
21		280	1 130 S	27 300	21.0	113	252 S	2 460	12.0	49.5	104 S	445	21
22	21.0	253	941 S	20 600	21.0	110	279 S	2 650		49.6	99	424	22
23	22.0	225	1 060 S	20 600	24.0	108	275 S	2 570	11.0	52.4	151 S	684	23
24	20.0	208	1 230 S	22 100	21.0	103	181 S	1 610		53.5	272	1 260	24
25	19.0	197	1 160 S	19 700	20.0	99.1	201 S	1 720	12.0	54.8	391 S	1 850	25
26	21.0	191	655 S	10 800	21.0	96.9	224 S	1 880		57.7	389	1 940	26
27	22.0	205	507 S	8 980	23.0	93.3	217 S	1 750	10.0	60.2	275 S	1 430	27
28	21.0	273	815 S	19 200		87.1	371 S	2 790		58.1	165	828	28
29	22.0	340	1 110 S	32 600		82.6	365	2 600	11.0	55.9	129 S	623	29
30	19.0	296	993 S	25 400	15.0	78.1	214 S	1 440		54.3	118	554	30
31	19.0	256	864 S	19 100		75.0	161	1 040					31
TOTAL		4 774.5		368 000		6 477.1		508 400		1 810.5		26 121	TOTAL
MEAN		154		11 900		209		16 400		60.4		871	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	52.6	127 S	577		37.7	59	192		9.20 B			1
2		50.3	140	608	6.0	37.7	48 S	156		9.60 B			2
3	11.0	49.8	149 S	641	7.0	38.3	62 S	205		9.80 B			3
4		49.0	126	533	2.0	37.7	47 S	153		9.60 B			4
5	11.0	48.7	88 S	370		35.4	39	119		9.40 B			5
6		47.7	73	301	4.0	32.1	48 S	133		9.30 B			6
7	10.0	46.9	94 S	381		31.8	43	118		9.50 B			7
8		46.4	74	297	4.0	30.6	27 S	71.4		10.1 B			8
9	10.0	46.5	52 S	209		30.5	22	58.0		10.3 B			9
10		47.3	65	266	3.0	30.5	26 S	68.5		9.80 B			10
11	10.0	48.2	80 S	333		32.3	103	287		9.20 B			11
12		48.3	93	388	3.0	31.8	202 S	555		8.60 B			12
13	5.0	50.0	105 S	454		29.7	162	416		8.50 B			13
14		51.9	132	592	4.0	29.1	76 S	191		8.30 B			14
15	7.0	49.9	146 S	629		30.5	69	182		8.12 B			15
16		49.3	105	447	2.0	32.3	79 S	220		8.40 B			16
17	7.0	49.5	69 S	295		30.8	77	205		9.00 B			17
18		48.4	62	259		29.7	74	190		9.70 B			18
19	6.0	47.2	66 S	269		31.0	71	190		10.2 B			19
20		45.3	72	282		28.8 B	68	169		9.60 B			20
21	4.0	44.0	76 S	289		27.5 B	65	154		8.90 B			21
22		43.5	71	267		24.7 B	62	132		8.00 B			22
23	2.0	42.5	69 S	253		21.0 B	59	107		7.30 B			23
24		41.3	93	332		19.6 B	55	93.1		6.70 B			24
25	2.0	40.3	130 S	453		18.8 B	50	81.2		6.50 B			25
26		39.3	99	336		17.4 B	45	67.7		6.20 B			26
27	3.0	37.6	21 S	68.2		15.0 B	40	51.8		5.80 B			27
28		37.7	32	104		12.7 B	33	36.2		5.20 B			28
29	3.0	36.3	110 S	345		10.3 B	27	24.0		4.50 B			29
30		36.7	122	387		9.08 B	20	15.7		3.30 B			30
31	4.0	37.6	96 S	312						3.05 B			31
TOTAL		1 410.0		11 277.2		824.38		4 641.6		251.67			TOTAL
MEAN		45.5		364		27.5		155		8.12			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 9 280 ON MAY 12

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 126 000 ON AUG 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 54 10 N
LONG 110 17 50 W
DRAINAGE AREA 44 500 km^2
REGULATED FLOW SINCE 1908

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 04	17:00	74.5 H	8.0	1 250 K	63	71	82	88	90	92	93	96	98	99		BNW
MAY 11	16:00	70.6 H	14.0	8 380 K	70	82	94	97	98	98	99	99	100			BNW
MAY 16	11:00	194 H	10.0	1 180 K	11	16	28	47	70	89	97	99	100			BNW
MAY 21	12:00	165 H	18.0	1 030 K	18	22	32	46	65	81	93	97	99	100		BNW
MAY 27	13:35	293	19.0	1 480 R	16	23	32	45	60	80	94	98	100			BNW
JUN 03	16:05	157	21.0	711 R	26	38	51	64	74	83	92	98	100			BNW
JUN 06	17:00	203 H	19.0	914 K	18	23	30	38	49	62	76	92	98	100		BNW
JUN 12	17:00	133 H	12.0	452 K	34	40	51	62	71	76	85	93	97	98		BNW
JUN 18	17:00	110 H	15.0	395 K	37	47	59	73	81	86	94	98	99	100		BNW
JUL 03	13:00	95.1 H	21.0	1 210 K	59	66	78	86	89	92	96	98	99	100		BNW
JUL 04	15:00	87.3 H	20.0	1 050 K	9	17	56	73	81	87	94	98	100			BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

SLAVE RIVER AT FITZGERALD - STATION NO. 07NB001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2 370 B				1 140 B				1 880 B			1
2		2 370 B				1 150 B				1 790 B			2
3		2 240 B				1 190 B				1 690 B			3
4		2 120 B				1 240 B				1 550 B			4
5		1 940 B				1 250 B				1 420 B			5
6		1 840 B				1 270 B				1 280 B			6
7		1 770 B				1 350 B				1 180 B			7
8		1 700 B				1 440 B				1 200 B			8
9		1 630 B				1 550 B				1 210 B			9
10		1 630 B				1 590 B				1 230 B			10
11		1 660 B				1 550 B				1 270 B			11
12		1 650 B				1 570 B				1 310 B			12
13		1 650 B				1 620 B				1 390 B			13
14		1 650 B				1 690 B				1 470 B			14
15		1 720 B				1 790 B				1 540 B			15
16		1 780 B				1 910 B				1 580 B			16
17		1 830 B				1 940 B				1 600 B			17
18		1 880 B				1 900 B				1 630 B			18
19		1 920 B				1 940 B				1 650 B			19
20		1 850 B				1 950 B				1 670 B			20
21		1 710 B				2 000 B				1 690 B			21
22		1 610 B				2 010 B				1 710 B			22
23		1 460 B				2 030 B				1 730 B			23
24		1 300 B				2 020 B				1 770 B			24
25		1 220 B				1 990 B				1 790 B			25
26		1 160 B				1 980 B				1 850 B			26
27		1 100 B				1 960 B				1 890 B			27
28		1 090 B				1 920 B				1 920 B			28
29		1 090 B								1 940 B			29
30		1 100 B								1 950 B			30
31		1 100 B								1 950 B			31
TOTAL		51 140				46 940				49 730			TOTAL
MEAN		1 650				1 680				1 600			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1 950 B				3 590 B			15.0	5 130	431 S	191 000	1
2		1 960 B				3 800 B			15.0	5 110	464 S	205 000	2
3		1 940 B				3 820 B			17.0	5 180	531 S	238 000	3
4		1 950 B				3 610 B			17.0	5 160	559 S	249 000	4
5		1 950 B				2 860 B			17.0	5 110	596 S	263 000	5
6		1 950 B				2 590 B			17.0	5 060	541 S	237 000	6
7		1 970 B				3 190 B			18.0	5 270	502 S	229 000	7
8		2 000 B				4 330 B			16.0	5 270	530 S	241 000	8
9		2 030 B				5 540 B			16.0	5 210	588 S	265 000	9
10		2 060 B				5 270 B			16.0	5 160	600 S	267 000	10
11		2 100 B				5 010 B			16.0	5 070	532 S	233 000	11
12		2 120 B				4 740 E			16.0	4 990	422 S	182 000	12
13		2 170 B				4 730			17.0	4 870	405 S	170 000	13
14		2 200 B				4 780			16.0	4 690	432 S	175 000	14
15		2 270 B				4 850			16.0	4 470	463 S	179 000	15
16		2 310 B				4 900				4 270	442	163 000	16
17		2 330 B				4 940				4 110	386	137 000	17
18		2 350 B				4 940				3 960	323	111 000	18
19		2 360 B				4 890				3 880	263	88 200	19
20		2 380 B				4 790				3 850	207	68 900	20
21		2 370 B				4 750				3 830	169	55 900	21
22		2 390 B				4 870			17.0	3 760	145 S	47 100	22
23		2 390 B				4 880			17.0	3 770	144 S	46 900	23
24		2 400 B				4 820			17.0	3 810	194 S	63 900	24
25		2 470 B			19.0	4 800	460 S	191 000	17.0	3 830	126 S	41 700	25
26		2 570 B			19.0	4 820	405 S	169 000	17.0	3 840	86 S	28 500	26
27		2 670 B				4 940	375	160 000	17.0	3 746	103 S	33 300	27
28		2 860 B				5 050	372	162 000	18.0	3 670	118 S	37 400	28
29		3 120 B				5 070	381	167 000	18.0	3 590	108 S	33 500	29
30		3 370 B				5 160	392	175 000	18.0	3 510	105 S	31 800	30
31						5 210	409	184 000					31
TOTAL		68 960				141 540				133 170		4 312 100	TOTAL
MEAN		2 300				4 570				4 440		144 000	MEAN

SLAVE RIVER AT FITZGERALD - STATION NO. 07NB001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	19.0	3 420	118 S	34 900	20.0	3 510	65 S	19 700	17.0	2 450	39 S	8 260	1
2	18.0	3 420	74 S	21 900	20.0	3 490	67 S	20 200	15.0	2 380	37 S	7 610	2
3	19.0	3 400	101 S	29 700	21.0	3 490	68 S	20 500	14.0	2 360	34 S	6 930	3
4	19.0	3 320	114 S	32 700	21.0	3 490	76 S	22 900	13.0	2 390	32 S	6 610	4
5	19.0	3 190	106 S	29 200	21.0	3 520	73 S	22 200	14.0	2 420	32 S	6 690	5
6	20.0	3 300	115 S	32 800	20.0	3 500	72 S	21 800	14.0	2 430	35 S	7 350	6
7	19.0	3 340	109 S	31 500	20.0	3 530	78 S	23 800	13.0	2 440	37 S	7 800	7
8	19.0	3 320	137 S	39 300	20.0	3 630	87 S	27 300	13.0	2 480	36 S	7 710	8
9	18.0	3 180	157 S	43 100	21.0	3 670	87 S	27 600	13.0	2 470	39 S	8 320	9
10	18.0	3 180	122 S	33 500	21.0	3 620	87 S	27 200	13.0	2 470	69 S	14 700	10
11	18.0	3 240	100 S	28 000	21.0	3 580	78 S	24 100	13.0	2 460	49 S	10 400	11
12	18.0	3 300	100 S	28 500	22.0	3 510	76 S	23 000	13.0	2 540	36 S	7 900	12
13	18.0	3 270	108 S	30 500	22.0	3 270	75 S	21 200	14.0	2 600	33 S	7 410	13
14	21.0	3 260	97 S	27 300	22.0	3 190	100 S	27 600	14.0	2 700	31 S	7 230	14
15	21.0	3 270	84 S	23 700	22.0	3 070	133 S	35 300	13.0	2 790	32 S	7 710	15
16	21.0	3 200	80 S	22 100	22.0	2 940	100 S	25 400	13.0	2 790	34 S	8 200	16
17	21.0	3 070	88 S	23 300	22.0	2 810	89 S	21 600	14.0	2 730	35 S	8 260	17
18	21.0	2 930	93 S	23 500	22.0	2 730	74 S	17 500	14.0	2 730	36 S	8 490	18
19	21.0	2 970	88 S	22 600	21.0	2 750	70 S	16 600	14.0	2 820	40 S	9 750	19
20	21.0	3 020	79 S	20 600	21.0	2 740	64 S	15 200	13.0	2 860	39 S	9 640	20
21	21.0	2 920	67 S	16 900	21.0	2 690	52 S	12 100	13.0	2 790	35 S	8 440	21
22	20.0	2 850	80 S	19 700	21.0	2 670	40 S	9 230	13.0	2 710	38 S	8 900	22
23	20.0	2 850	83 S	20 400	20.0	2 660	38 S	8 730	12.0	2 720	39 S	9 170	23
24	20.0	2 970	81 S	20 800	20.0	2 630	37 S	8 410	12.0	2 690	34 S	7 900	24
25	19.0	3 040	70 S	18 400	20.0	2 620	34 S	7 700	12.0	2 630	32 S	7 270	25
26	19.0	3 070	62 S	16 400	20.0	2 570	30 S	6 660	11.0	2 630	32 S	7 270	26
27	20.0	3 000	62 S	16 100	20.0	2 530	28 S	6 120	10.0	2 670	38 S	8 770	27
28	20.0	2 930	57 S	14 400	20.0	2 480	42 S	9 000	9.0	2 700	38 S	8 860	28
29	20.0	3 110	55 S	14 800	19.0	2 450	48 S	10 200	9.0	2 680	30 S	6 950	29
30	20.0	3 360	59 S	17 100	18.0	2 520	48 S	10 500	10.0	2 670	30 S	6 920	30
31	20.0	3 500	63 S	19 100	18.0	2 510	45 S	9 760					31
TOTAL		98 200		772 800		94 370		559 110		78 200		247 420	TOTAL
MEAN		3 170		24 900		3 040		18 000		2 610		8 250	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	2 740	62 S	14 700		2 370 B				1 550 B			1
2	9.0	2 720	47 S	11 000		2 300 B				1 700 B			2
3	9.0	2 720	38 S	8 930		2 320 B				1 770 B			3
4	8.0	2 620	39 S	8 830		2 300 B				1 850 B			4
5	8.0	2 700	38 S	8 860		2 240 B				1 930 B			5
6	8.0	2 780	36 S	8 650		2 100 B				2 030 B			6
7	8.0	2 850	39 S	9 600		2 110 B				1 990 B			7
8	7.0	3 050	67 S	17 700		2 100 B				1 840 B			8
9	8.0	3 090	75 S	20 000		2 090 B				1 850 B			9
10	8.0	3 000	73 S	18 900		2 100 B				1 900 B			10
11	7.0	2 920	72 S	18 200		2 040 B				2 050 B			11
12	7.0	2 880	74 S	18 400		2 000 B				2 060 B			12
13	5.0	2 850	80 S	19 700		1 900 B				2 020 B			13
14	6.0	2 830	76 S	18 600		1 800 B				2 150 B			14
15	6.0	2 820	60 S	14 600		1 750 B				2 100 B			15
16		2 800	60 E	14 500		1 760 B				2 060 B			16
17		2 770	60 E	14 400		1 780 B				2 050 B			17
18		2 780	60 E	14 400		1 800 B				2 060 B			18
19		2 810	60 E	14 600		1 820 B				2 300 B			19
20		2 870	55 E	13 600		1 850 B				2 200 B			20
21		2 710	55 E	12 900		1 860 B				2 040 B			21
22		2 630	50 E	11 400		1 870 B				1 770 B			22
23		2 510	50 E	10 800		1 890 B				1 750 B			23
24		2 530	45 E	9 840		1 900 B				1 830 B			24
25		2 530	45 E	9 840		1 830 B				1 820 B			25
26		2 560	40 E	8 850		1 750 B				1 900 B			26
27		2 570	40 E	8 880		1 780 B				1 850 B			27
28		2 570	30 E	6 660		1 450 B				1 900 B			28
29		2 600 B	30 E	6 740		1 430 B				2 130 B			29
30		2 550 B	25 E	5 510		1 500 B				2 230 B			30
31		2 480 B	25 E	5 360						2 160 B			31
TOTAL		84 840		384 950		57 790				60 840			TOTAL
MEAN		2 740		12 400		1 930				1 960			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 600 ON JUN 10

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 267 000 ON JUN 10

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 52 20 N
LONG 111 35 00 W
DRAINAGE AREA 606 000 km^2
REGULATED FLOW SINCE 1968

ALBERTA

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		100 B				105 B				160 B			1
2		80.0 B				104 B				157 B			2
3		110 B				103 B				147 B			3
4		175 B				100 B				140 B			4
5		150 B				97.0 B				134 B			5
6		122 B				103 B				127 B			6
7		100 B				109 B				121 B			7
8		115 B				108 B				118 B			8
9		110 B				114 B				114 B			9
10		110 B				113 B				112 B			10
11		105 B				108 B				109 B			11
12		118 B				106 B				107 B			12
13		135 B				110 B				106 B			13
14		150 B				102 B				104 B			14
15		150 B				92.0 B				113 B			15
16		142 B				84.0 B				127 E			16
17		130 B				75.0 B				136 E			17
18		120 B				104 B				142 E			18
19		114 B				123 B				142 E			19
20		107 B				142 B				130 E			20
21		100 B				171 B				135 E			21
22		103 B				176 B				131 A			22
23		108 B				186 B				125 E			23
24		122 B				197 B				110 E			24
25		140 B				188 B				108 E			25
26		132 B				181 B			2.0	118 E	120 S	1 220	26
27		120 B				173 B				126 E			27
28		110 B				165 B			2.0	133 A	465 S	5 340	28
29		106 B								131 E			
30		103 B								128 E			
31		110 B								122 E			
TOTAL		3 697.0				3 539.0				3 913			TOTAL
MEAN		119				126				126			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	3.0	120 A	158 S	1 640		168 E	129	1 870		1 130	1 000 S	97 600	1
2		118 E	123	1 250	11.0	155 A	86 S	1 150		969	818 S	68 500	2
3		118 E	104	1 060	10.0	149 A	60 S	772		860	781 S	58 000	3
4	5.0	133 A	119 S	1 370		141 E	48	585		843	1 210 S	88 100	4
5		130 E	145	1 630	11.0	140 A	48 S	581		854	659 S	48 600	5
6		128 E	134	1 480		152 E	70	919		842	522 S	38 000	6
7	2.0	141 A	152 S	1 850	11.0	191 A	164 S	2 710		767	624 S	41 400	7
8		142 E	147	1 800		191 E	173	2 850		722	658	41 000	8
9	6.0	146 A	99 S	1 250	12.0	167 A	109 S	1 570		668	412 S	23 800	9
10		139 E	80	961	11.0	146 A	114 S	1 440		621	337 S	18 100	10
11	7.0	131 A	79 S	894		152 E	155	2 040		575	332 S	16 500	11
12	5.0	127 A	71 S	779	11.0	221 A	261 S	4 980		539	322 S	15 000	12
13		125 E	60	648		282 E	464	11 300		502	370 S	16 000	13
14	5.0	123 A	54 S	574		280 E	537	13 000		470	309 S	12 500	14
15		122 E	53	559	10.0	278 A	474 S	11 400		470	312 S	12 700	15
16	9.0	121 A	55 S	575		241 E	391	8 140		589	620	31 600	16
17		121 E	57	596	10.0	224 A	358 S	6 930		1 000	1 150 S	99 400	17
18	8.0	120 A	55 S	570		224 E	1 830	35 400		888	1 130 S	86 700	18
19	7.0	122 A	56 S	590	12.0	626 A	4 430 S	240 000		792	717 S	49 100	19
20		121 E	54	565	13.0	632 A	3 570 S	195 000		759	559 S	36 700	20
21	11.0	121 A	54 S	565	12.0	584 A	1 730 S	87 300		680	408 S	24 000	21
22		120 E	52	539	15.0	727 A	2 170 S	136 000		611	301 S	15 900	22
23	10.0	119 A	51 S	524	15.0	704 A	1 280 S	77 900		579	332 S	16 600	23
24		118 E	57	581	15.0	1 140 A	2 500 S	246 000	17.0	530 A	277 S	12 700	24
25	11.0	116 A	65 S	651	15.0	1 540 A	4 350 S	579 000		507 A	218 S	9 550	25
26	12.0	116 A	49 S	491	15.0	1 550 A	3 660 S	490 000		462 A	164 S	6 550	26
27		119 E	41	422	15.0	1 440 A	2 400 S	299 000		429 A	205 S	7 600	27
28	12.0	121 A	41 S	429	15.0	1 500 A	1 930 S	250 000		357 A	150 S	4 630	28
29		128 E	60	664	16.0	1 630	1 980 S	279 000		325 E	108	3 030	29
30	12.0	167 A	106 S	1 530	16.0	1 460	1 840 S	232 000		293 A	81 S	2 050	30
31						1 300	1 400 S	157 000					31
TOTAL		3 793		27 037		18 335		3 375 837		19 633		1 001 910	TOTA
MEAN		126		901		591		109 000		654		33 400	MEA

ALBERTA

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		345 E	117	3 490		322 A	170 S	4 730		142	22 S	270	1
2		398 A	176 S	6 050		328 A	85 S	2 410		147	27	343	2
3		377 A	132 S	4 300		320 A	87 S	2 410		141	28 S	341	3
4		397 A	136 S	4 660		374 A	132 S	4 270		136	27	317	4
5		371 A	111 S	3 560		400 A	178	6 150		143	26 S	321	5
6		384 A	132 S	4 380		368	132 S	4 200		126	26 S	283	6
7		407 A	144 S	5 060		310	68 S	1 820		131	29	328	7
8		377 A	136 S	4 430		302	52	1 360		126	23 S	250	8
9		371 A	133 S	4 260		304	74 S	1 940		127	21	230	9
10		416 A	144 S	5 180		284	57	1 400		107	22 S	203	10
11		429 A	138 S	5 120		264	56 S	1 280		104	42	377	11
12		382 A	139 S	4 590		256	56	1 240		95.8	26 S	215	12
13		360 A	132 S	4 110		227	36	706		95.3	21 S	173	13
14		331 A	85 S	2 430		236	82 S	1 670		84.2	16	116	14
15		330 A	81 S	2 310		232	67	1 340		66.7	13 S	74.9	15
16		291 A	58 S	1 460		224	46 S	890		67.4	17	99.0	16
17		281 E	48	1 170		222	48	921		73.6	19 S	121	17
18		271 A	68 S	1 590	26.0	209	40 S	722		72.1	14	87.2	18
19		322 A	128 S	3 560		206	26	463		65.8	13 S	73.9	19
20		345 E	147	4 380		226	53 S	1 030		91.5	26 S	206	20
21		367 A	117 S	3 710		221	48	917		66.7	13	74.9	21
22	21.0	384 A	113 S	3 750		201	39 S	677		55.6	11 S	52.8	22
23		501 A	127 S	5 500		198	40 S	684		58.2	15	75.4	23
24		489 A	155 S	6 550		218	66	1 240		51.0	12 S	52.9	24
25		358 A	78 S	2 410		205	43 S	762		47.1	13	52.9	25
26		348 A	96 S	2 890		161	31	431		47.5	15 S	61.6	26
27		332 A	160 S	4 590		163	43 S	606		44.2	11 S	42.0	27
28		366 A	79 S	2 500		185	45	719		66.4	27	155	28
29		385 A	154 S	5 120		156	27 S	364	12.0	61.4	18 S	95.5	29
30		400 A	128 S	4 420		141	22 S	268		49.4	13	55.5	30
31		355 A	113 S	3 470		141	22	268					31
TOTAL		11 470		121 880		7 604		47 888		2 689.9		5 147.5	TOTAL
MEAN		370		3 900		245		1 540		89.7		172	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	11.0	44.5	11 S	42.3	6.0	44.1	18 S	68.6		22.0 B			1
2		47.2	10	40.8		38.5				45.0 B			2
3	10.0	47.5	11 S	45.1		39.3				67.0 B			3
4	9.0	50.7	19 S	83.2		55.1				54.0 B			4
5		50.1	23	99.6		95.8				52.0 B			5
6	9.0	45.7	15 S	59.2		72.1				55.0 B			6
7		43.7	14	52.9		132				53.0 B			7
8	9.0	42.5	12 S	44.1		109				54.0 B			8
9		41.4	11	39.3		112				58.0 B			9
10		41.3	14	50.0		112				63.0 B			10
11		42.7	23	84.9		102				67.0 B			11
12	5.0	43.4	28 S	105		91.5				69.0 B			12
13		46.0	33	125		84.4				57.0 B			13
14	7.0	44.7	36 S	139		86.7				23.0 B			14
15		45.6	38	150		93.9				37.0 B			15
16		45.9	34	135		92.9				53.0 B			16
17	6.0	45.1	23 S	89.6		97.4				51.0 B			17
18	7.0	44.3	24 S	91.9		93.3				48.0 B			18
19		42.8	24	88.8		92.7				44.0 B			19
20	4.0	42.2	23 S	83.9		94.9				44.0 B			20
21		41.7	19	68.5		94.9				50.0 B			21
22		40.3	17	59.2		93.9				57.0 B			22
23	5.0	38.6	13 S	43.4		94.4				56.0 B			23
24		37.0	11	35.2		93.2				54.0 B			24
25		36.2	12	37.5		92.1				53.0 B			25
26	5.0	35.6	14 S	43.1		73.4				53.0 B			26
27		35.2	15	45.6		75.9				55.0 B			27
28	6.0	44.8	20 S	77.4		81.0 B				46.0 B			28
29		45.1	12	46.8		70.3 B				37.0 B			29
30	5.0	45.2	12 S	46.9		34.9 B				33.0 B			30
31		45.8	16	63.3						32.0 B			31
TOTAL		1 340.8		2 216.5		2 543.6				1 542.0			TOTAL
MEAN		43.3		71.5		84.8				49.7			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 4 430 ON MAY 19

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 579 000 ON MAY 25

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 44 15 N
LONG 110 05 45 W
DRAINAGE AREA 66 000 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED[1])

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 25	06:00	1 540 H	15.0	1 210 K	21	30	45	63	81	93	98	100				BNW
MAY 28		1 500	14.0	1 810 R	19	26	39	54	69	84	93	98	99	100		BNW
MAY 31	07:00	1 300 H		1 390 K	20	25	34	49	65	77	88	98	99	100		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.804 B				1.25 B				0.918 B			1
2		0.761 B				1.30 B				0.897 B			2
3		0.708 B				1.30 B				0.955 B			3
4		0.634 B				1.31 B				0.900 B			4
5		0.612 B				1.31 B				0.863 B			5
6		0.674 B				1.29 B				0.869 B			6
7		0.694 B				1.27 B				0.850 B			7
8		0.701 B				1.28 B				0.803 B			8
9		0.741 B				1.23 B				0.667 B			9
10		0.815 B				1.10 B				0.613 B			10
11		0.883 B				0.959 B				0.777 B			11
12		0.946 B				0.821 B				1.03 B			12
13		0.991 B				0.755 B				1.18 B			13
14		1.03 B				0.729 B				1.29 B			14
15		1.06 B				0.714 B				1.52 B			15
16		1.07 B				0.727 B				2.03 B			16
17		1.10 B				0.786 B				2.58 B			17
18		1.08 B				0.849 B				2.64 B			18
19		1.08 B				0.968 B				2.21 B			19
20		1.07 B				1.10 B				1.91 B			20
21		1.05 B				1.22 B				1.72 B			21
22		1.02 B				1.33 B				1.50 B			22
23		1.03 B				1.43 B				1.39 B			23
24		1.04 B				1.47 B				1.21 B			24
25		1.04 B				1.28 B				1.30 B			25
26		1.06 B				1.13 B				1.45 B			26
27		1.12 B				1.10 B				1.75 B			27
28		1.14 B				0.980 B				2.04 B			28
29		1.17 B								2.52 B			29
30		1.19 B								3.59 B			30
31		1.22 B								4.59 B			31
TOTAL		29.534				30.986				48.562			TOTAL
MEAN		0.953				1.11				1.57			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.51 B				35.3				31.3	587	1 590	1
2		6.37 B				39.1			16.0	30.1	445 S	1 160	2
3		6.75 B				36.1				29.3	502	1 270	3
4		7.36 B				31.8				37.3	693	2 230	4
5		7.46 B				28.2				28.5	428	1 050	5
6		10.1 B				25.6				21.1	306	558	6
7		11.9 B				24.0				22.0	402	764	7
8		12.3 B				25.8				21.6	407	760	8
9		10.3 B				25.6				16.8	219	318	9
10		8.46 B				23.4				13.9	125	150	10
11		6.68 B				22.7			18.0	12.7	54 S	59.3	11
12		5.20 B				21.4				13.1	61	69.0	12
13		5.08 B				20.1			15.0	16.3	100 S	141	13
14		5.46 B				19.3				22.4	279	540	14
15		5.36 B				18.9			19.0	20.9	185 S	334	15
16		7.53 B				17.7				18.2	141	222	16
17		10.9 B				16.6			14.0	33.3	546 S	1 570	17
18		12.7 B				16.5			11.0	71.9	1 130 S	7 020	18
19		13.0 B				17.6			13.0	51.0	691 S	3 040	19
20		19.8				17.7			13.0	40.9	533 S	1 880	20
21	4.0	27.5	437 S	1 040		17.0			12.0	36.1	399 S	1 240	21
22		28.7				16.3				31.0	280	750	22
23	5.0	28.6	310 S	766		16.2			12.0	26.0	254 S	571	23
24		34.6				17.3				24.4	237	500	24
25		59.5				16.9			17.0	20.9	154 S	278	25
26		47.4				15.0				16.6	92	132	26
27		33.1				14.0			17.0	13.4	67 S	77.6	27
28		30.8				13.2				11.5	48	47.7	28
29		31.0				12.8			19.0	9.99	33 S	28.5	29
30	6.0	31.8	271 S	745		12.5				8.81	29	22.1	30
31						13.1							31
TOTAL		531.22				647.7				751.30		28 372.2	TOTAL
MEAN		17.7				20.9				25.0		946	MEAN

ALBERTA

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	16.0	8.28	26 S	18.6	19.0	8.22	29 S	20.6	15.0	0.897	6 S	0.47	1
2		7.68	29	19.2		7.49	25	16.2		1.16	7	0.70	2
3	20.0	6.76	33 S	19.3	19.0	6.77	19 S	11.1	14.0	1.20	8 S	0.83	3
4		5.92	26	13.3		5.73	15	7.43		1.10	7	0.67	4
5	18.0	5.21	24 S	10.8	21.0	4.89	13 S	5.49	12.0	1.00	5 S	0.43	5
6		4.68	19	7.68		4.44	11	4.22		0.964	5	0.42	6
7	18.0	4.41 A	14 S	5.33	24.0	3.90	10 S	3.37	19.0	0.988	5 S	0.43	7
8		5.51 A	14	6.66		3.37	10	2.91		0.948	5	0.41	8
9	15.0	5.90 A	14 S	7.14	22.0	2.92	12 S	3.03	19.0	0.815	5 S	0.35	9
10		4.84 A	11	4.60	25.0	2.58	15 S	3.34		0.724	5	0.31	10
11	18.0	4.05 A	9 S	3.15		2.27	11	2.16	19.0	0.639	5 S	0.28	11
12		3.79 A	7	2.29	21.0	2.02	9 S	1.57		0.569	9	0.44	12
13	18.0	3.67 A	9 S	2.85		1.78	9	1.38	14.0	0.541	8 S	0.37	13
14		4.85 E	10	4.19	20.0	1.60	9 S	1.24		0.520	7	0.31	14
15	18.0	6.02 A	16 S	8.32		1.49	9	1.16	17.0	0.515	7 S	0.31	15
16		6.91 A	30	17.9	19.0	1.36	8 S	0.94		0.495	7	0.30	16
17	24.0	7.27 A	49 S	30.8		1.25	8	0.86	19.0	0.498	7 S	0.30	17
18		6.08 A	45	23.6	21.0	1.18	8 S	0.82		0.466	6	0.24	18
19	23.0	4.76 A	21 S	8.64		1.09	8	0.75	15.0	0.460	6 S	0.24	19
20		4.03 A	14	4.87	20.0	1.01	6 S	0.52		0.585	6	0.30	20
21	20.0	7.34 A	62 S	39.3		0.947	6	0.49	12.0	1.13	6 S	0.59	21
22		36.6 A	800	2 530	21.0	0.908	6 S	0.47		3.09	13	3.47	22
23	10.0	87.4 A	2 180 S	16 500		0.855	6	0.44	13.0	2.76	10 S	2.38	23
24	16.0	58.3 A	956 S	4 820	19.0	0.836	7 S	0.51		3.17	12	3.29	24
25	16.0	41.7 A	554 S	2 000		0.775	6	0.40	10.0	4.50	26 S	10.1	25
26	19.0	24.1 A	303 S	631	24.0	0.734	5 S	0.32		4.84	27	11.3	26
27		16.0 A	81	112		0.656	5	0.28	8.0	4.43	21 S	8.04	27
28	21.0	14.9 A	72 S	92.7	20.0	0.612	6 S	0.32	9.0	3.65	19 S	5.99	28
29		12.9 A	65	72.4		0.593	6	0.31		3.07	17	4.51	29
30	19.0	10.7	47 S	43.5	12.0	0.590	6 S	0.31	9.0	2.74	13 S	3.08	30
31		9.48	36	29.5	14.0	0.669	6 S	0.35					31
TOTAL		430.04		27 089.62		73.535		93.29		48.460		60.86	TOTAL
MEAN		13.9		874		2.37		3.01		1.62		2.03	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.45	8	1.69		2.48				0.469 B			1
2	9.0	2.21	6 S	1.15		2.61				0.498 B			2
3		1.99	6	1.03		2.62				0.536 B			3
4	4.0	1.80	7 S	1.09		2.68				0.480 B			4
5		1.66	7	1.00		2.67				0.496 B			5
6	6.0	1.59	8 S	1.10		2.61				0.476 B			6
7		1.54	8	1.06		2.60				0.460 B			7
8	4.0	1.67	7 S	1.01		2.49				0.464 B			8
9		2.78	8	1.92		1.84				0.454 B			9
10	3.0	3.72	14 S	4.50		2.12				0.442 B			10
11		3.18	11	3.02		2.56				0.436 B			11
12	5.0	2.68	9 S	2.08		2.11				0.433 B			12
13		2.42	10	2.09		2.53				0.427 B			13
14	8.0	2.26	11 S	2.15		2.31 B				0.424 B			14
15		2.32	12	2.41		2.36 B				0.424 B			15
16	7.0	3.15	14 S	3.81		2.58 B				0.419 B			16
17		4.09	19	6.71		2.02 B				0.404 B			17
18	6.0	3.86	14 S	4.67		0.830 B				0.386 B			18
19		3.28	14	3.97		0.528 B				0.404 B			19
20	4.0	2.88	15 S	3.73		0.936 B				0.396 B			20
21		2.74	14	3.31		1.09 B				0.399 B			21
22	1.0	2.48	11 S	2.36		0.803 B				0.436 B			22
23		1.73	8	1.20		0.630 B				0.448 B			23
24	2.0	1.84	7 S	1.11		0.568 B				0.402 B			24
25		2.26	8	1.56		0.509 B				0.360 B			25
26	1.0	2.44	10 S	2.11		0.453 B				0.388 B			26
27		2.63	12	2.73		0.448 B				0.410 B			27
28	1.0	3.21	14 S	3.88		0.453 B				0.402 B			28
29		2.97	11	2.82		0.453 B				0.406 B			29
30		2.92	12	3.03		0.467 B				0.304 B			30
31		2.27	9	1.77						0.253 B			31
TOTAL		79.02		76.07		49.358				13.136			TOTAL
MEAN		2.55		2.45		1.65				0.424			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 2 180 ON JUL 23

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 16 500 ON JUL 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 19 00 N
LONG 115 24 30 W
DRAINAGE AREA 1 930 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 21	14:45	27.5 H	4.0	437 R	20	27	39	56	69	77	86	95	99	100		BNW
JUN 18	18:45	71.9 H	11.0	969 R	25	25	37	46	57	69	83	95	99	100		BNW
JUL 23	10:30	87.4 H	10.0	2 530 K	26	34	48	65	79	88	94	99	100			BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

TWIN CREEK NEAR SEEBE - STATION NO. 05BF018

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.010				0.006				0.005			1
2		0.010				0.006				0.005			2
3		0.009				0.006				0.005			3
4		0.009				0.006				0.005			4
5		0.009				0.006				0.005			5
6		0.009				0.006				0.005			6
7		0.009				0.006				0.005			7
8		0.009				0.006				0.005			8
9		0.008				0.005				0.005			9
10		0.008				0.005				0.005			10
11		0.008				0.005				0.005			11
12		0.008				0.005				0.005			12
13		0.008				0.005				0.005			13
14		0.008				0.005				0.005			14
15		0.007				0.005				0.006			15
16		0.007				0.005				0.006			16
17		0.007				0.005				0.006			17
18		0.007				0.005				0.006			18
19		0.007				0.005				0.006			19
20		0.007				0.005				0.006			20
21		0.007				0.005				0.006			21
22		0.007				0.005				0.006			22
23		0.007				0.005				0.005			23
24		0.007				0.005				0.006			24
25		0.007				0.005				0.006			25
26		0.007				0.005				0.006			26
27		0.007				0.005				0.006			27
28		0.007				0.005				0.006			28
29		0.007								0.006			29
30		0.006								0.006			30
31		0.006											31
TOTAL		0.239				0.148				0.171			TOTAL
MEAN		0.007				0.005				0.005			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.006				0.027	0	0		0.336	4	0.12	1
2		0.006				0.030	0	0	2.0	0.365	3 S	0.09	2
3		0.006				0.025	0	0		0.394	3 S	0.10	3
4		0.006				0.021	0	0		0.352	3	0.09	4
5		0.006				0.018	0	0		0.312	2	0.05	5
6		0.005				0.018	0	0		0.306	2	0.05	6
7		0.005				0.017	0	0		0.283	2	0.05	7
8		0.005				0.017	0	0		0.239	1	0.02	8
9		0.005				0.017	0	0	2.0	0.211	1 S	0.02	9
10		0.005				0.017	0	0		0.223	1	0.02	10
11		0.005				0.016	0	0		0.241	1	0.02	11
12		0.005				0.016	0	0		0.254	1	0.02	12
13		0.005				0.018	0	0		0.219	0	0	13
14		0.005				0.023	0	0		0.182	0	0	14
15		0.005				0.029	0	0		0.188	0	0	15
16		0.005				0.027	0	0	2.0	0.198	0 S	0	16
17		0.005			1.0	0.027	0 S	0		0.184	0	0	17
18		0.006				0.037	0	0		0.166	0	0	18
19		0.006				0.058	1	0.01		0.149	0	0	19
20		0.007			1.0	0.094	3 S	0.02		0.138	0	0	20
21		0.008				0.215	3	0.06		0.136	0	0	21
22		0.008			1.5	0.293	4 S	0.10		0.135	0	0	22
23		0.010				0.307	5	0.13	2.5	0.132	1 S	0.01	23
24		0.015				0.361	6	0.19		0.131	1	0.01	24
25		0.014				0.379 A	9	0.29	4.0	0.136	1 S	0.01	25
26		0.012			1.0	0.402 A	10 S	0.35		0.157	1	0.01	26
27		0.011				0.417	12	0.43		0.179	1	0.02	27
28		0.011				0.343	11	0.33		0.169	1	0.01	28
29		0.011				0.294	8	0.20		0.160	1	0.01	29
30		0.016				0.319	8	0.22	3.5	0.177	1 S	0.02	30
31						0.366	7	0.21					31
TOTAL		0.225				4.228		2.54		6.452		0.75	TOTAL
MEAN		0.007				0.136		0.08		0.215		0.03	MEAN

TWIN CREEK NEAR SEEBE - STATION NO. 05BF018

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.204	2	0.04		0.138	1	0.01	6.0	0.031	0 S	0	1
2		0.198	3	0.05		0.128	1	0.01		0.030	1	0	2
3		0.213	3	0.06		0.119	1	0.01		0.029	1	0	3
4		0.207	3	0.05	4.0	0.109	1 S	0.01		0.028	1	0	4
5		0.192	3	0.05		0.098	1	0.01		0.027	1	0	5
6		0.176	2	0.03		0.089	1	0.01		0.026	1	0	6
7		0.159	2	0.03		0.084	1	0.01		0.025	1	0	7
8	3.0	0.139	1 S	0.01		0.078	0	0	5.0	0.025	1 S	0	8
9		0.124	1	0.01		0.072	0	0	5.0	0.024	1 S	0	9
10		0.112	1	0.01		0.067	0	0		0.024	2	0	10
11		0.101	1	0.01	5.8	0.063	0 S	0		0.023	2	0	11
12		0.092	1	0.01		0.062	1	0.01		0.022	2	0	12
13		0.093	1	0.01		0.058	1	0.01		0.022	2	0	13
14		0.120	1	0.01		0.055	1	0		0.021	1	0	14
15	3.5	0.144	1 S	0.01		0.052	1	0	4.0	0.020	1 S	0	15
16		0.172	2	0.03		0.050	1	0		0.020	1	0	16
17		0.175	2	0.03		0.049	1	0		0.019	1	0	17
18		0.164	1	0.01	5.5	0.047	1 S	0		0.018	1	0	18
19		0.152	1	0.01		0.045	1	0		0.018	1	0	19
20		0.138	1	0.01		0.043	1	0		0.018	1	0	20
21	3.5	0.127	1 S	0.01		0.042	1	0		0.018	1	0	21
22		0.116	1	0.01		0.040	1	0	3.0	0.017	1 S	0	22
23		0.115	1	0.01		0.038	1	0		0.017	1	0	23
24		0.117	1	0.01		0.037	1	0		0.017	1	0	24
25		0.129	1	0.01	6.0	0.035	1 S	0		0.017	1	0	25
26		0.139	2	0.02		0.034	1	0		0.017	1	0	26
27		0.136	1	0.01		0.033	0	0		0.017	1	0	27
28	4.5	0.131	1 S	0.01		0.032	0	0	2.0	0.018	2 S	0	28
29		0.136	1	0.01		0.031	0	0		0.017	2	0	29
30		0.140	1	0.01		0.032	0	0		0.017	2	0	30
31		0.144	1	0.01		0.031	0	0					31
TOTAL		4.505		0.60		1.891		0.09		0.642		0	TOTAL
MEAN		0.145		0.02		0.061		0		0.021		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.016	2	0		0.011				0.006			1
2		0.016	2	0		0.011				0.006			2
3		0.015	2	0		0.011				0.006			3
4		0.014	1	0		0.010				0.006			4
5		0.014	0	0		0.009				0.006			5
6		0.014	0	0		0.009				0.006			6
7		0.014	0	0		0.009				0.006			7
8		0.014	0	0		0.009				0.006			8
9	1.0	0.014	0 S	0		0.009				0.006			9
10		0.013	0	0		0.009				0.006			10
11		0.013	0	0		0.009				0.006			11
12		0.013	0	0		0.009				0.007			12
13		0.013	0	0		0.009				0.006			13
14		0.013	1	0		0.009				0.006			14
15		0.013	1	0		0.009				0.006			15
16		0.013	1	0		0.008				0.006			16
17		0.013	1	0		0.008				0.006			17
18		0.012	1	0		0.008				0.006			18
19		0.012	1	0		0.008				0.006			19
20		0.011	1	0		0.008				0.006			20
21		0.011	1	0		0.008				0.006			21
22		0.011	1	0		0.008				0.006			22
23		0.011	1	0		0.007				0.006			23
24		0.011	1	0		0.006				0.006			24
25		0.011	1	0		0.006				0.006			25
26		0.011	1	0		0.006				0.006			26
27	1.0	0.011	1 S	0		0.007				0.006			27
28		0.011	1	0		0.006				0.005			28
29		0.012	1	0		0.006				0.004			29
30		0.011	1	0		0.006				0.004 A			30
31		0.011	1	0						0.004 E			31
TOTAL		0.392		0		0.248				0.180			TOTAL
MEAN		0.013		0		0.008				0.006			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 12 ON MAY 27
MINIMUM DAILY 0 ON MAY 01

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 0.43 ON MAY 27
MINIMUM DAILY 0 ON MAY 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 33 N
LONG 115 10 19 W
DRAINAGE AREA 2.64 km^2
NATURAL FLOW

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

WAMPUS CREEK NEAR HINTON - STATION NO. 07AF003

SUSPENDED SEDIMENT FOR 1981

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.020 B				0.131 B	1	0.01		0.626	12	0.65	1
2		0.024 B				0.115 B	1	0.01		0.542	11	0.52	2
3		0.029 B				0.115 B	1	0.01		0.500	9	0.39	3
4		0.034 B				0.103 B	1	0.01		0.444	7	0.27	4
5		0.038 B			0.1	0.102	1 S	0.01	9.5	0.395	5 S	0.17	5
6		0.043 B				0.093	2	0.02		0.370	5	0.16	6
7		0.047 B				0.113	3	0.03		0.355	4	0.12	7
8		0.052 B				0.167	9	0.13		0.354	5	0.15	8
9		0.058 B			1.3	0.469	32 S	1.30	6.5	0.378	4 S	0.13	9
10		0.060 B				0.979	46	3.89	5.0	0.607	22 S	1.15	10
11		0.060 B			0.8	0.949	57 S	4.67		0.668	22	1.27	11
12		0.060 B			1.0	0.706	54 S	3.29	6.5	0.687	15 S	0.89	12
13		0.061 B			2.5	0.530	26 S	1.19	4.8	1.12	46 S	4.45	13
14		0.062 B			2.4	0.670	39 S	2.26		1.01	20	1.75	14
15		0.064 B			1.1	1.53	237 S	31.3		0.859	12	0.89	15
16		0.070 B				0.895	88	6.80		0.753	11	0.72	16
17		0.075 B				0.733	20	1.27		0.718	9	0.56	17
18		0.080 B				0.651	8	0.45		0.673	7	0.41	18
19		0.090 B			4.4	0.593	8 S	0.41	6.2	0.595	6 S	0.31	19
20		0.095 B				0.612	21	1.11		0.581	7	0.35	20
21		0.100 B			3.8	0.856	159 S	11.8	5.7	0.550	7 S	0.33	21
22		0.110 B			4.4	1.10	114 S	10.8		0.474	7	0.29	22
23		0.119 B			3.8	1.07	29 S	2.68		0.434	7	0.26	23
24		0.120 B				0.831	11	0.79		0.398	7	0.24	24
25		0.125 B				0.886	15	1.15	11.5	0.348	6 S	0.18	25
26		0.130 B			3.7	1.13	59 S	5.76		0.315	4	0.11	26
27		0.128 B				0.801	21	1.45		0.373	13	0.42	27
28		0.097 B				0.710	13	0.80	7.2	0.342	7 S	0.21	28
29		0.116 B			5.7	0.621	11 S	0.59		0.284	5	0.12	29
30		0.105 B				0.573	11	0.54	9.8	0.249	5 S	0.11	30
31					6.0	0.628	9 S	0.49					31
TOTAL		2.272				19.462		95.02		15.998		17.58	TOTAL
MEAN		0.076				0.628		3.07		0.533		0.59	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.231	5	0.10		1.12	33	3.19	8.6	0.129	7 S	0.08	1
2		0.203	5	0.09	7.5	0.871	21 S	1.58	6.6	0.237	12 S	0.25	2
3	15.0	0.184	4 S	0.06		0.745	18	1.16	7.8	0.250	12 S	0.26	3
4		0.178	4	0.06		0.674	15	0.87		0.191	4	0.07	4
5		0.175	4	0.06	9.5	0.595	11 S	0.57		0.197	7	0.12	5
6	9.0	0.178	4 S	0.06		0.526	9	0.41	6.0	0.169	6 S	0.09	6
7	8.5	0.433	14 S	0.52	11.5	0.471	7 S	0.28		0.147	5	0.06	7
8		0.330	13	0.37		0.409	7	0.25		0.128	5	0.06	8
9		0.240	10	0.21		0.362	8	0.25		0.119	6	0.06	9
10		0.217	9	0.17		0.314	8	0.22		0.112	7	0.07	10
11		0.195	7	0.12		0.275	9	0.21		0.108	8	0.07	11
12	8.0	0.179	5 S	0.08	15.2	0.250	8 S	0.17	7.2	0.102	7 S	0.06	12
13		0.174	3	0.05		0.233	5	0.10		0.101	6	0.05	13
14	8.7	0.464	47 S	1.88	14.8	0.215	3 S	0.06		0.101	5	0.04	14
15		0.667	77	4.44		0.198	2	0.03		0.098	4	0.03	15
16	11.5	0.461	17 S	0.68		0.182	2	0.03	12.1	0.093	4 S	0.03	16
17		0.391	9	0.30		0.181	1	0.02		0.088	4	0.03	17
18	11.8	0.343	6 S	0.18	14.2	0.167	1 S	0.01		0.085	4	0.03	18
19		0.329	5	0.14		0.155	1	0.01	8.9	0.109	7 S	0.07	19
20	11.2	0.322	5 S	0.14		0.148	1	0.01		0.140	15	0.18	20
21	10.4	0.666	19 S	1.09	10.1	0.187	1 S	0.01	5.3	0.116	9 S	0.09	21
22	9.2	0.904	37 S	2.89		0.134	2	0.02		0.143	7	0.09	22
23		1.46	76	9.59		0.120	2	0.02		0.133	5	0.06	23
24	8.0	2.28	143 S	28.2	10.5	0.113	3 S	0.03	3.5	0.136	8 S	0.09	24
25	10.2	1.40	84 S	10.2		0.109	4	0.04		0.128	7	0.08	25
26		0.954	26	2.14	15.1	0.108	9 S	0.08		0.107	8	0.07	26
27		0.751	21	1.36		0.108	8	0.07		0.090	8	0.06	27
28	9.7	0.708	20 S	1.22		0.101	6	0.05		0.080	6	0.04	28
29	9.9	1.14	129 S	12.7	9.4	0.124	6 S	0.06		0.073	7	0.04	29
30	10.4	2.45	190 S	40.2		0.189	18	0.29		0.064	7	0.04	30
31		1.38	59	7.03		0.142	10	0.12					31
TOTAL		19.987		126.33		9.486		10.22		3.774		2.37	TOTAL
MEAN		0.645		4.08		0.306		0.33		0.126		0.08	MEAN

WAMPUS CREEK NEAR HINTON - STATION NO. 07AF003

SUSPENDED SEDIMENT FOR 1981

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.061	7	0.04		0.057							1
2		0.067	5	0.03		0.063							2
3	3.3	0.058 B	6 S	0.03		0.055							3
4		0.050	6	0.03		0.057 B							4
5		0.048 B	11	0.05									5
6		0.046											6
7		0.056											7
8		0.063											8
9		0.060											9
10		0.055											10
11		0.052											11
12		0.048											12
13		0.046											13
14		0.046											14
15		0.045											15
16		0.046											16
17		0.047											17
18		0.045											18
19		0.045											19
20		0.043											20
21		0.042 B											21
22		0.042 B											22
23		0.042											23
24		0.048											24
25		0.066											25
26		0.052											26
27		0.045											27
28		0.045 B											28
29		0.045 B											29
30		0.045 B											30
31		0.046											31
TOTAL		1.545											TOTAL
MEAN		0.050											MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 237 ON MAY 15

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 40.2 ON JUL 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 22 N
LONG 117 15 40 W
DRAINAGE AREA 25.6 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

WHISKEYJACK CREEK NEAR HINTON - STATION NO. 07AD004

SUSPENDED SEDIMENT FOR 1981

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1					1.0	0.002	4 S	0		0.093	28	0.22	1
2						0.001	4	0		0.068	10	0.06	2
3						0.001	4	0		0.060	9	0.05	3
4						0.001	4	0		0.053	8	0.04	4
5						0.001	4	0		0.046	7	0.03	5
6						0.001	4	0		0.041	6	0.02	6
7						0.003	5	0		0.037	6	0.02	7
8						0.010	12	0.01		0.034	5	0.01	8
9						0.022	18	0.03	5.0	0.033	4 S	0.01	9
10						0.028	19	0.05	4.0	0.031	5 S	0.01	10
11						0.024	11	0.02		0.034	9	0.03	11
12						0.021	6 S	0.01		0.032	7	0.02	12
13						0.018	3	0		0.031	6	0.02	13
14						0.018	3	0		0.029	5	0.01	14
15						0.028	8	0.02	6.0	0.026	4 S	0.01	15
16						0.025	4	0.01	5.0	0.025	2 S	0	16
17						0.023	3	0.01		0.023	2	0	17
18						0.020	3	0.01	6.0	0.022	3 S	0.01	18
19						0.019	3	0		0.020	3	0.01	19
20						0.020	2	0		0.019	2	0	20
21						0.080	19	0.13		0.018	2	0	21
22		0.002 A	3	0		0.125	35	0.38	4.0	0.016	2 S	0	22
23	1.0	0.002 B	4 S	0		0.129	27	0.30	6.0	0.014	2 S	0	23
24		0.002 B	3	0		0.089	14	0.11	6.0	0.011	1 S	0	24
25		0.002	3	0	3.0	0.068	11 S	0.06	7.0	0.009	1 S	0	25
26		0.001	4	0	4.0	0.059	8 S	0.04	5.0	0.009	1 S	0	26
27		0.001	4	0		0.052	8	0.04		0.009	1	0	27
28		0.001	4	0	5.0	0.051	10 S	0.04		0.008	1	0	28
29		0.001	4	0		0.043	7	0.03	6.0	0.008	1 S	0	29
30		0.001	4	0		0.043	7	0.03		0.008	1	0	30
31						0.086	25	0.19					31
TOTAL						1.111		1.52		0.867		0.58	TOTAL
MEAN						0.036		0.05		0.029		0.02	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.007	1	0		0.036	6	0.02		0.006	4	0	1
2		0.007	1	0		0.032	3	0.01		0.016	16	0.02	2
3		0.007	1	0		0.029	3 S	0.01		0.011	6	0.01	3
4		0.006	2	0		0.027	3 S	0.01		0.009	6	0	4
5		0.006	2	0		0.024	2	0		0.009	11	0.01	5
6	7.0	0.006	3 S	0		0.021	2 S	0		0.007	8	0	6
7	7.0	0.006	1 S	0		0.018	2	0		0.006	7	0	7
8		0.006	1	0	7.0	0.016	2 S	0	8.0	0.005	6 S	0	8
9		0.006	1	0		0.013	2	0		0.005	5	0	9
10		0.006	1	0		0.010	2	0		0.005	4	0	10
11		0.005	1	0	9.0	0.009	2 S	0		0.004	4	0	11
12		0.005	1	0		0.008	2	0		0.004	3	0	12
13		0.005	1	0	8.0	0.008	2 S	0		0.004	2	0	13
14		0.005	1	0		0.008	2	0		0.004	2	0	14
15	7.0	0.006	1 S	0	7.0	0.007	2 S	0		0.004	2	0	15
16	6.0	0.006	2 S	0		0.007	2	0		0.004	2	0	16
17	7.0	0.005	1 S	0		0.007	2	0		0.003	1	0	17
18	8.0	0.005	2 S	0	8.0	0.007	1 S	0		0.003	1	0	18
19		0.009	3	0		0.006	1	0		0.004	3	0	19
20	8.0	0.021	10 S	0.02		0.006	1	0		0.004	1	0	20
21	7.0	0.031	13 S	0.03		0.006	1	0		0.004	1	0	21
22		0.065	25	0.14		0.005	1	0		0.004	1	0	22
23		0.094	57	0.46		0.005	1	0		0.004	1	0	23
24		0.062	30	0.16	8.0	0.005	1 S	0		0.004	1	0	24
25		0.044	12	0.05		0.005	1	0		0.004	1	0	25
26		0.037	6	0.02		0.005	1	0		0.004	1	0	26
27		0.033	3	0.01		0.004	1	0		0.004	1	0	27
28		0.033	3	0.01		0.004	1	0		0.004	1	0	28
29	7.0	0.034	3 S	0.01		0.006	3	0		0.003	1	0	29
30	7.0	0.036	4 S	0.01		0.009	9	0.01		0.003	1	0	30
31	6.0	0.035	6 S	0.02		0.006	3	0					31
TOTAL		0.639		0.94		0.359		0.06		0.155		0.04	TOTAL
MEAN		0.020		0.03		0.011		0		0.005		0	MEAN

WHISKEYJACK CREEK NEAR HINTON - STATION NO. 07AD004

SUSPENDED SEDIMENT FOR 1981

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.003	1	0		0.005	1	0					1
2		0.003	1	0		0.005	1	0					2
3		0.003	1	0		0.004	1	0					3
4		0.003	1	0		0.004	1	0					4
5		0.003	1	0		0.004	1	0					5
6		0.003	1	0		0.004	1	0					6
7		0.003	1	0		0.004	1	0					7
8		0.003	1	0		0.004	1	0					8
9		0.003	1	0		0.004	1	0					9
10		0.003	1	0		0.004	1	0					10
11		0.003	1	0		0.004	1	0					11
12		0.003	1	0		0.004	1	0					12
13		0.003	1	0		0.004	1	0					13
14		0.003	1	0		0.004	1	0					14
15		0.003	1	0		0.004	1	0					15
16		0.003	1	0		0.004	1	0					16
17		0.003	1	0		0.004	1	0					17
18		0.003	1	0		0.004	1	0					18
19		0.003	1	0		0.004	1	0					19
20		0.003	1	0		0.004	1	0					20
21		0.003	1	0		0.004	1	0					21
22		0.002	1	0		0.004	1	0					22
23		0.002	1	0									23
24		0.003	1	0									24
25		0.003	1	0									25
26		0.003	1	0									26
27		0.003	1	0									27
28		0.003	1	0									28
29		0.003	1	0									29
30		0.003	1	0									30
31		0.003	1	0									31
TOTAL		0.091		0									TOTAL
MEAN		0.003		0									MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 57 ON JUL 23

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 0.96 ON JUL 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 22 50 N
LONG 117 32 15 W
DRAINAGE AREA 3.37 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

E - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

ARROW CREEK NEAR ERICKSON - STATION NO. 08NN084

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.18	2	0.20		0.677	1	0.06		0.714	1	0.06	1
2		1.12	2	0.19		0.668	1	0.06		0.708	1	0.06	2
3		1.07	2	0.18		0.629	1	0.05		0.714	1	0.06	3
4		1.03	2	0.18		0.603 B	0	0		0.728	1	0.06	4
5		0.963	1	0.08		0.572 B	0	0		0.708	1	0.06	5
6		0.903	1	0.08		0.558 B	0	0		0.680	0	0	6
7		0.878	1	0.08		0.566 B	0	0		0.668	0	0	7
8		0.858	1	0.07		0.580 B	0	0		0.665	0	0	8
9		0.816	1	0.07		0.564 B	0	0		0.660	0	0	9
10		0.787	1	0.07		0.510 B	0	0		0.680	0	0	10
11		0.759	1	0.07		0.515 B	0	0		0.725	0	0	11
12		0.782	1	0.07		0.532 B	0	0	1.5	0.807	0 S	0	12
13		0.787	1	0.07		0.549 B	0	0		0.872	0	0	13
14	0.5	0.756	1 S	0.07		0.572 B	0	0		0.940	1	0.08	14
15		0.716 B	1	0.06		0.609 B	0	0		1.03	2	0.18	15
16		0.677 B	1	0.06	1.0	0.643	0 S	0	3.0	1.12	2 S	0.19	16
17		0.612 B	1	0.05		0.691	0	0		1.10	2	0.19	17
18		0.623 B	1	0.05		0.688	1	0.06		1.02	1	0.09	18
19		0.640 B	1	0.06		0.816	2	0.14	3.0	0.960	1 S	0.08	19
20		0.643	1	0.06		0.915	2	0.16		0.943	1	0.08	20
21		0.643	1	0.06		0.858	1	0.07		0.926	1	0.08	21
22		0.648	1	0.06		0.841	1	0.07		0.900	1	0.08	22
23		0.705	1	0.06		0.796	1	0.07	4.0	0.864	1 S	0.07	23
24		0.864	1	0.07		0.818	1	0.07		0.847	1	0.07	24
25		0.799	1	0.07		0.821	1	0.07		0.844	1	0.07	25
26		0.767	1	0.07		0.796	1	0.07	4.0	0.858	1 S	0.07	26
27		0.748	1	0.06		0.762	1	0.07		0.903	2	0.16	27
28		0.722	1	0.06		0.731	1	0.06		0.954	1	0.08	28
29		0.719	1	0.06					4.0	1.00	1 S	0.09	29
30		0.694	1	0.06						1.01	1	0.09	30
31		0.699	1	0.06						1.07	1	0.09	31
TOTAL		24.608		2.51		18.880		1.08		26.618		2.14	TOTAL
MEAN		0.794		0.08		0.674		0.04		0.858		0.07	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.05	1	0.09		9.43	32	26.1	7.5	9.19	12 S	9.53	1
2	4.0	0.997	0 S	0		8.47	37	27.1		7.92	9	6.16	2
3		0.954	0	0		6.37	25	13.8	8.0	9.18	7 S	5.55	3
4		0.881	0	0		5.15	13	5.78		8.69	8	6.01	4
5		0.881	1	0.08		4.50	5	1.94	8.0	6.76	8 S	4.67	5
6		0.810	1	0.07		4.08	2	0.71		7.62	10	6.58	6
7		0.784	1	0.07	2.5	3.65	2 S	0.63	8.5	6.29	10 S	5.43	7
8	2.5	0.767	1 S	0.07		3.48	3	0.90	6.0	5.40	6 S	2.80	8
9		0.742	1	0.06		3.68	3	0.95	8.0	6.16	11 S	5.85	9
10		0.711	1	0.06		4.02	3	1.04		7.46	20	12.9	10
11		0.702	1	0.06		4.70	3	1.22		9.16	17	13.5	11
12		0.697	1	0.06		4.90	3	1.27	8.5	7.69	9 S	5.98	12
13		0.657	1	0.06		5.10	4	1.76		8.81	9	6.85	13
14		0.660	1	0.06		5.49	9	4.27		9.23	11	8.77	14
15		0.725	1	0.06		9.74	35	29.5	8.5	8.54	11 S	8.12	15
16		0.943	4	0.33		10.0	28	24.2		7.37	8	5.09	16
17		1.03	4	0.36		9.85	21	17.9		7.08	6	3.67	17
18		1.19	4	0.41		9.83	17	14.4	8.0	6.37	5 S	2.75	18
19		1.45	4	0.50		10.3	14	12.5		6.86	5	2.96	19
20		1.77	5	0.76	6.0	11.1	16 S	15.3	8.0	8.42	5 S	3.64	20
21		2.27	6	1.18	6.5	13.4	30 S	34.7		9.02	6	4.68	21
22		2.29	6	1.19		13.8	42	50.1		8.41	5	3.63	22
23		2.78	6	1.44		11.4	35	34.5	7.0	8.85	5 S	3.82	23
24		4.36	9	3.39	7.0	7.28	33 S	20.8		7.60	4	2.63	24
25		4.39	6	2.28	7.0	8.52	31 S	22.8	6.0	6.56	4 S	2.27	25
26		3.77	5	1.63		17.0	43	63.2		6.56	5	2.83	26
27		3.54	5	1.53	7.0	11.9	34 S	35.0		6.12	4	2.12	27
28		3.62	4	1.25		10.5	32	29.0	6.0	5.22	4 S	1.80	28
29		3.71	4	1.28	7.5	11.0	32 S	30.4		4.67	5	2.02	29
30		4.90	9	3.81		10.3	25	22.2	7.0	4.67	6 S	2.42	30
31					7.5	11.8	13 S	13.3					31
TOTAL		54.031		22.14		260.74		557.27		221.88		155.03	TOTAL
MEAN		1.80		0.74		8.41		18.0		7.40		5.17	MEAN

ARROW CREEK NEAR ERICKSON - STATION NO. 08NN084

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4.72	6	2.45		1.41	3	0.37		0.714	1	0.06	1
2		3.79	5	1.64	10.0	1.36	3 S	0.35		0.640	1	0.06	2
3		3.71	5	1.60		1.27	3	0.33		0.547	1	0.05	3
4		3.54	4	1.22		1.26	3	0.33	7.0	0.555	1 S	0.05	4
5	7.0	3.37	3 S	0.87		1.21	3	0.31		0.545	1	0.05	5
6		3.91	4	1.35		1.15	3	0.30		0.517	1	0.04	6
7		5.15	4	1.78		1.10	3	0.29		0.511	1	0.04	7
8		4.26	3	1.10		1.04	3	0.27		0.503	1	0.04	8
9		3.61	3	0.94	11.0	1.02	3 S	0.26		0.489	0	0	9
10		3.35	2	0.58		0.990	3	0.26		0.477	0	0	10
11		3.18	2	0.55		0.964	3	0.25	7.0	0.473	0 S	0	11
12	8.0	3.00	1 S	0.26		0.949	2	0.16		0.473	0	0	12
13	9.0	3.08	2 S	0.53		0.923	2	0.16		0.466	0	0	13
14		2.97	2	0.51		0.929	2	0.16		0.454	1	0.04	14
15		2.79	2	0.48		0.911	1	0.08		0.455	1	0.04	15
16		2.56	1	0.22	10.0	0.881	1 S	0.08		0.449	1	0.04	16
17		2.35	1	0.20		0.888	1	0.08		0.435	1	0.04	17
18		2.22	1	0.19	14.0	0.764	2 S	0.13	6.0	0.428	1 S	0.04	18
19	8.0	2.11	1 S	0.18		0.685	2	0.12		0.502	1	0.04	19
20		2.10	1	0.18		0.670	1	0.06		0.478	2	0.08	20
21		2.02	1	0.17		0.647	1	0.06		0.544	2	0.09	21
22		1.99	1	0.17		0.620	1	0.05		0.505	2	0.09	22
23		1.91	1	0.17		0.602	0	0		0.479	2	0.08	23
24		1.89	1	0.16	8.0	0.579	0 S	0		0.470	2	0.08	24
25		1.85	1	0.16		0.571	0	0	5.3	0.452	2 S	0.08	25
26	10.0	1.73	1 S	0.15		0.577	0	0		0.433	2	0.07	26
27		1.67	1	0.14		0.546	0	0		0.427	2	0.07	27
28		1.62	2	0.28		0.533	0	0		0.556	2	0.10	28
29		1.57	2	0.27		0.540	0	0		0.536	2	0.09	29
30		1.55	2	0.27		0.569	0	0		0.498	2	0.09	30
31		1.48	2	0.26		0.546	0	0					31
TOTAL		85.05		19.03		26.704		8.46		15.011		1.55	TOTAL
MEAN		2.74		0.61		0.861		0.14		0.500		0.05	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.458	2	0.08		0.494	1	0.04		0.437	1	0.04	1
2		0.596	2	0.10		0.495	1	0.04		0.442	1	0.04	2
3		0.499	2	0.09		0.484	1	0.04		0.422	1	0.04	3
4		0.468	2	0.08		0.474	2	0.08	1.0	0.428	1 S	0.04	4
5		0.454	2	0.08		0.449	2	0.08		0.427	1	0.04	5
6		0.546	2	0.09	1.5	0.449	2 S	0.08		0.438	1	0.04	6
7		0.621	2	0.11		0.437	2	0.08		0.425	1	0.04	7
8		0.657	2	0.11		0.433	2	0.07		0.405	2	0.07	8
9		0.645	2	0.11	4.0	0.429	2 S	0.07		0.412	2	0.07	9
10	3.0	0.556	2 S	0.10		0.423	2	0.07		0.547	2	0.09	10
11		0.502	2	0.09		0.425	2	0.07		0.476	2	0.08	11
12		0.485	2	0.08		0.557	3	0.14		0.425 B	2	0.07	12
13		0.469	2	0.08		0.553	2	0.10		0.368 B	2	0.06	13
14		0.471	2	0.08		0.578	2	0.10		0.379 B	2	0.07	14
15		0.465	2	0.08		0.566	1	0.05		0.385 B	2	0.07	15
16		0.468	2	0.08	2.0	0.524	0 S	0		0.382 B	2	0.07	16
17		0.470	2	0.08		0.533	0	0		0.377 B	2	0.07	17
18		0.458	2	0.08		0.512	1	0.04		0.371 B	2	0.06	18
19		0.462	2	0.08		0.495	1	0.04		0.382 B	2	0.07	19
20		0.454	2	0.08		0.486	1	0.04		0.393	2	0.07	20
21	3.5	0.430	2 S	0.07		0.499	1	0.04		0.380	2	0.07	21
22		0.425	3	0.11		0.519	2	0.09		0.360 B	2	0.06	22
23		0.425	3	0.11		0.500	2	0.09		0.354 B	2	0.06	23
24		0.416	3	0.11	2.0	0.477	2 S	0.08		0.362 B	2	0.06	24
25	5.0	0.413	3 S	0.11		0.415	2	0.07		0.370	2	0.06	25
26		0.419	3	0.11		0.420	1	0.04		0.398	2	0.07	26
27		0.491	3	0.13		0.399	1	0.03		0.371	2	0.06	27
28		0.544	4	0.19		0.411	1	0.04		0.360 B	2	0.06	28
29		0.538	3	0.14		0.457	1	0.04		0.345 B	2	0.06	29
30		0.494	2	0.09		0.444	1	0.04		0.331 B	2	0.06	30
31	5.0	0.485	1 S	0.04						0.331 B	2	0.06	31
TOTAL		15.284		2.97		14.337		1.79		12.283		1.88	TOTAL
MEAN		0.493		0.10		0.478		0.06		0.396		0.06	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 771.85 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	12	
MAXIMUM DAILY	43	ON MAY 26
MINIMUM DAILY	0	ON FEB 04

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	2.11	
MAXIMUM DAILY	63.2	ON MAY 26
MINIMUM DAILY	0	ON FEB 04

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 09 32 N
LONG 116 27 04 W
DRAINAGE AREA 78.7 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

CARNATION CREEK AT THE MOUTH - STATION NO. 08HB048

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.630	3	0.16		0.211	1	0.02		0.270	0	0	1
2		0.438	3	0.11	6.5	0.188	1 S	0.02	6.0	0.231	0 S	0	2
3		0.332	2	0.06	7.5	0.170	1 S	0.01	6.5	0.448	0 S	0	3
4		0.274	2	0.05		0.158	1	0.01	5.8	0.344	0 S	0	4
5		0.234	2	0.04		0.150	1	0.01	5.5	0.251	0 S	0	5
6	7.3	0.212	2 S	0.04		0.142	1	0.01	6.0	0.208	1 S	0.02	6
7	6.6	0.188	5 S	0.08		0.136	0	0	6.4	0.227	1 S	0.02	7
8	6.8	0.166 A	5 S	0.07		0.130	0	0		0.312	1	0.03	8
9	7.1	1.12 A	3 S	0.29		0.124	0	0	6.0	0.247	1 S	0.02	9
10		0.431 A	3	0.11	3.5	0.117	0 S	0	7.0	0.200	1 S	0.02	10
11		0.291	3	0.08		0.116	0	0	7.3	0.200	1 S	0.02	11
12	6.5	0.236	2 S	0.04		0.128	0	0	6.8	0.180	2 S	0.03	12
13	7.5	0.200	2 S	0.03	5.0	0.795	1 S	0.07	7.8	0.157	2 S	0.03	13
14	8.0	0.171	2 S	0.03	6.0	3.25	11 S	3.09	7.9	0.162	2 S	0.03	14
15	6.0	0.160	2 S	0.03	6.0	7.93	17 S	11.6		0.307	3	0.08	15
16	6.0	0.148	2 S	0.03	7.0	5.14	11 S	4.89	6.5	0.284	2 S	0.05	16
17	6.5	0.133	2 S	0.02	9.0	3.05 A	4 S	1.05	6.0	0.200	2 S	0.03	17
18	8.0	0.777 A	5 S	0.34	7.1	3.78 A	12 S	3.92	6.3	0.165	1 S	0.01	18
19		0.760 A	5	0.33	7.0	5.33 A	7 S	3.22	7.0	0.145	1 S	0.01	19
20		0.777 A	7	0.47	6.5	1.15	2 S	0.20	6.9	0.138	1 S	0.01	20
21	8.8	4.30 A	3 S	1.11	7.0	1.95	3 S	0.51	8.0	0.135	1 S	0.01	21
22	8.8	2.07	3 S	0.54	6.5	0.826	2 S	0.14		0.202	2	0.03	22
23	8.0	0.781	2 S	0.13	7.0	0.802	3 S	0.21	7.3	0.454	3 S	0.12	23
24	7.0	0.459	2 S	0.08	6.5	0.781	2 S	0.13	7.5	0.312	2 S	0.05	24
25	7.0	0.354	1 S	0.03	7.0	0.758	2 S	0.13	7.3	1.12	2 S	0.19	25
26	6.7	0.499	1 S	0.04	6.0	0.671	2 S	0.12	6.5	0.537	2 S	0.09	26
27	6.0	0.537	1 S	0.05	6.0	0.433	1 S	0.04	7.5	0.335	1 S	0.03	27
28	6.2	0.424	1 S	0.04	6.5	0.339	1 S	0.03	7.7	0.333	0 S	0	28
29	5.5	0.345	1 S	0.03					7.2	0.905	1 S	0.08	29
30	5.1	0.280	1 S	0.02					7.0	1.02	2 S	0.18	30
31	5.9	0.238	1 S	0.02					6.9	3.18 A	5 S	1.37	31
TOTAL		17.965		4.50		38.755		29.43		13.209		2.56	TOTAL
MEAN		0.579		0.15		1.38		1.05		0.426		0.08	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	6.6	1.11 A	1 S	0.10		0.684	2 S	0.11		0.143 A	2	0.02	1
2	6.8	1.46 A	2 S	0.25	8.5	1.84	2 S	0.32	12.5	0.140 A	2 S	0.02	2
3	6.3	0.806	1 S	0.07	8.2	2.11	2 S	0.36		0.217 A	2	0.04	3
4	6.8	0.633	1 S	0.05	8.0	1.03	1 S	0.09	11.0	0.324 A	2 S	0.06	4
5	7.0	3.18	2 S	0.55	8.0	0.669	1 S	0.06	10.7	0.750 A	8 S	0.52	5
6		0.827	1	0.07	8.5	0.473	2 S	0.08	10.2	1.57 A	1 S	0.14	6
7	6.8	0.484	2 S	0.08	8.5	0.418	2 S	0.07	9.8	0.830 A	0 S	0	7
8	6.7	1.28	1 S	0.11	8.0	0.370	2 S	0.06	10.2	0.428 A	0 S	0	8
9	6.4	0.882	0 S	0		0.307	2	0.05	10.5	0.333 A	0 S	0	9
10	6.2	1.91	0 S	0	9.2	0.253	2 S	0.04		0.593 A	0	0	10
11	5.2	1.82	1 S	0.16	8.8	0.218	2 S	0.04	10.5	0.567 A	1 S	0.05	11
12	5.2	1.04	1 S	0.09	9.3	0.190	2 S	0.03		0.387	3	0.10	12
13	5.8	0.777	2 S	0.13	10.2	0.171	2 S	0.03	11.0	0.268	2 S	0.05	13
14	6.9	0.567	2 S	0.10	10.5	0.159	1 S	0.01		0.228	2	0.04	14
15	6.5	0.991	1 S	0.09	10.0	0.151	1 S	0.01		0.220	1	0.02	15
16	6.4	1.73	0 S	0		0.143	1	0.01	11.5	0.314	1 S	0.03	16
17		0.789	0	0	10.0	0.138	1 S	0.01		0.583	2	0.10	17
18		0.500	0	0	10.5	0.144	1 S	0.01	10.0	2.12	2 S	0.37	18
19		0.421	0	0	10.5	0.232	2 S	0.04	10.2	1.60	1 S	0.14	19
20	7.6	0.387	1 S	0.03	10.2	0.180	2 S	0.03	10.2	0.963	1 S	0.08	20
21	7.7	0.566	1 S	0.05		0.151	2	0.03	10.0	0.702	1 S	0.06	21
22	7.5	7.12	13 S	8.00	10.2	0.137	2 S	0.02	10.5	0.729	1 S	0.06	22
23	7.8	3.95	3 S	1.02		0.132	1	0.01	10.2	1.46	1 S	0.13	23
24	7.0	2.12	0 S	0	11.3	0.231	2 S	0.04	11.0	0.609	1 S	0.05	24
25	7.0	0.770	1 S	0.07		0.580	3	0.15	11.5	0.383	1 S	0.03	25
26	7.0	0.466	1 S	0.04		0.371	3	0.10		0.278	1	0.02	26
27	7.6	1.65	2 S	0.29	10.5	0.248	2 S	0.04	12.2	0.226	1 S	0.02	27
28	7.5	3.50	2 S	0.60	11.5	0.198 A	2 S	0.03		0.202	1	0.02	28
29	7.9	1.09	1 S	0.09		0.174 A	1	0.02	12.2	0.247	1 S	0.02	29
30	8.7	0.633	2 S	0.11	12.0	0.154 A	2 S	0.03		0.249	1	0.02	30
31						0.143 A	2	0.02					31
TOTAL		43.459		12.15		12.359		1.85		17.663		2.21	TOTAL
MEAN		1.45		0.41		0.398		0.06		0.589		0.07	MEAN

CARNATION CREEK AT THE MOUTH - STATION NO. 08HB048

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.216	1	0.02		0.080	2	0.01	13.0	1.10	3 S	0.29	1
2	12.5	0.184	1 S	0.02	14.0	0.076	2 S	0.01	13.0	0.278	2 S	0.05	2
3		0.161	1	0.01	14.0	0.076	1 S	0.01	13.5	0.147	2 S	0.03	3
4	13.5	0.146	0 S	0	14.0	0.075	1 S	0.01	13.5	0.122	2 S	0.02	4
5		0.134	0	0	15.0	0.074	1 S	0.01		0.107	2	0.02	5
6	13.0	0.127	1 S	0.01	15.0	0.071	0 S	0	13.5	0.095	2 S	0.02	6
7		0.122	1	0.01	16.0	0.071	1 S	0.01	14.0	0.089	2 S	0.02	7
8	13.5	0.118	1 S	0.01		0.071	1	0.01	15.0	0.086	2 S	0.01	8
9	13.0	0.114	1 S	0.01	17.0	0.067	0 S	0	14.3	0.087	3 S	0.02	9
10	11.5	0.122	1 S	0.01	17.0	0.064	1 S	0.01	14.0	0.100	2 S	0.02	10
11	13.0	0.134	1 S	0.01	16.2	0.063	2 S	0.01	13.5	0.095	3 S	0.02	11
12	13.0	0.120	1 S	0.01	16.5	0.063	1 S	0.01		0.088	3	0.02	12
13	13.0	0.112	1 S	0.01	16.0	0.063	1 S	0.01	13.1	0.082	3 S	0.02	13
14		0.107	1	0.01	15.5	0.063	1 S	0.01	13.0	0.077	2 S	0.01	14
15	13.5	0.105	1 S	0.01		0.063	2	0.01	12.8	0.076	2 S	0.01	15
16	13.5	0.103	1 S	0.01	15.5	0.063	2 S	0.01	14.0	0.078	2 S	0.01	16
17	14.0	0.100	1 S	0.01	15.5	0.063	2 S	0.01	14.0	0.076	2 S	0.01	17
18	14.3	0.103	1 S	0.01	15.0	0.063	2 S	0.01	14.0	0.262	4 S	0.09	18
19	13.5	0.108	1 S	0.01	15.0	0.062	2 S	0.01		0.355	3	0.09	19
20	13.5	0.104	1 S	0.01	15.0	0.063	2 S	0.01	13.0	0.305	2 S	0.05	20
21	13.5	0.101	1 S	0.01	15.0	0.062	2 S	0.01	12.0	5.97	9 S	4.64	21
22	13.5	0.099	2 S	0.02		0.062	2	0.01	11.5	1.44	3 S	0.37	22
23	14.0	0.095	1 S	0.01	15.5	0.057	2 S	0.01	11.1	0.598	1 S	0.05	23
24	14.5	0.093	1 S	0.01	15.0	0.058	3 S	0.02	11.0	0.364	1 S	0.03	24
25		0.092	1	0.01	15.0	0.059	5 S	0.03	10.3	0.313	1 S	0.03	25
26	16.0	0.092	1 S	0.01	13.2	0.061	4 S	0.02		0.223	1	0.02	26
27	15.5	0.089	0 S	0	13.2	0.062	3 S	0.02	12.0	0.322	2 S	0.06	27
28	15.5	0.085	1 S	0.01	12.9	0.063	3 S	0.02	11.5	1.15	2 S	0.20	28
29	15.0	0.084	0 S	0		0.065	3	0.02	11.0	0.508	1 S	0.04	29
30	14.2	0.082	0 S	0	14.0	0.065	2 S	0.01	11.5	0.987	1 S	0.09	30
31	14.5	0.081	1 S	0.01	13.5	0.331	4 S	0.11					31
TOTAL		3.533		0.29		2.299		0.86		15.576		6.36	TOTAL
MEAN		0.114		0.01		0.074		0.01		0.519		0.21	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	12.0	4.86	8 S	3.36	11.5	2.27	3 S	0.59	7.1	3.85	2 S	0.67	1
2	11.0	0.888	4 S	0.31	11.0	0.761	2 S	0.13	7.0	3.12	1 S	0.27	2
3		0.606	5	0.26	10.5	0.877	1 S	0.08	6.5	0.780	1 S	0.07	3
4	10.0	0.416	3 S	0.11	9.0	0.598	2 S	0.10	7.0	4.51	5 S	1.95	4
5	10.5	1.76	4 S	0.61	8.5	0.377	1 S	0.03	8.0	6.93	11 S	6.59	5
6	11.0	2.63	4 S	0.91	8.0	0.283	1 S	0.02	6.5	1.29	3 S	0.33	6
7	10.2	4.07	3 S	1.05		0.231	2	0.04	6.8	0.885	2 S	0.15	7
8	10.1	2.95	4 S	1.02	9.5	0.195	2 S	0.03	6.0	0.625	3 S	0.16	8
9	10.0	1.36	3 S	0.35	9.2	0.169	2 S	0.03	6.5	3.90	5 S	1.68	9
10	9.2	0.627	3 S	0.16	10.0	0.188	1 S	0.02	6.5	3.39	2 S	0.59	10
11	8.8	0.403	2 S	0.07	11.1	7.68	8 S	5.31	6.5	1.15	1 S	0.10	11
12	8.8	0.288	2 S	0.05	10.5	1.74	4 S	0.60		0.560	1	0.05	12
13	8.8	0.227	1 S	0.02	10.0	1.84	3 S	0.48	5.5	0.437	1 S	0.04	13
14	8.4	0.189	1 S	0.02	10.0	3.91	5 S	1.69	6.5	0.649	1 S	0.06	14
15	9.0	0.164	1 S	0.01	9.5	3.08	5 S	1.33	6.0	0.720	2 S	0.12	15
16	9.0	0.152	1 S	0.01	9.0	1.52	4 S	0.53	6.0	0.487	1 S	0.04	16
17		0.143	1	0.01	9.0	0.778	4 S	0.27	5.5	0.358	1 S	0.03	17
18	10.0	0.134	2 S	0.02	8.5	0.683	2 S	0.12	6.0	0.659	2 S	0.11	18
19	10.0	0.130	2 S	0.02	8.5	1.57	5 S	0.68	7.0	4.92	3 S	1.28	19
20	10.0	0.127	1 S	0.01	8.5	3.40	5 S	1.47	6.5	1.15	1 S	0.10	20
21	8.5	0.122	0 S	0	9.0	3.95	3 S	1.02	5.5	0.540	1 S	0.05	21
22	8.5	0.117	0 S	0	8.5	2.90	4 S	1.00	5.0	0.390	1 S	0.03	22
23	8.5	0.114	1 S	0.01	8.0	2.43	2 S	0.42	6.0	0.395	1 S	0.03	23
24		0.111	1	0.01	7.5	1.10	2 S	0.19	6.0	0.699	2 S	0.12	24
25	9.0	0.110	1 S	0.01	8.5	0.831	3 S	0.22	4.0	0.513	2 S	0.09	25
26	9.5	0.125	1 S	0.01	8.0	0.778	1 S	0.07		0.686	3	0.18	26
27	10.0	3.26	5 S	1.41	7.0	0.461	1 S	0.04	5.0	0.473	2 S	0.08	27
28	10.0	2.83	2 S	0.49		0.334	1	0.03	4.5	0.352	2 S	0.06	28
29	10.0	1.33	1 S	0.11	7.0	0.332	0 S	0	5.0	0.298	1 S	0.03	29
30	9.5	6.38	13 S	7.17	7.0	1.31	3 S	0.34	5.0	0.256	1 S	0.02	30
31	11.5	11.0	15 S	14.3					3.0	0.245	1 S	0.02	31
TOTAL		47.623		31.90		46.576		16.88		45.217		15.10	TOTAL
MEAN		1.54		1.03		1.55		0.56		1.46		0.49	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 123.79 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	5
MAXIMUM DAILY	17 ON FEB 15
MINIMUM DAILY	0 ON FEB 07

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.34
MAXIMUM DAILY	14.3 ON OCT 31
MINIMUM DAILY	0 ON FEB 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 54 56 N
LONG 124 59 52 W
DRAINAGE AREA 10.1 km^2
NATURAL FLOW

A - MANUAL GAUGE

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - TEMPERATURES DETERMINED FROM THERMOGRAPH

BRITISH COLUMBIA

COLUMBIA RIVER AT BIRCHBANK - STATION NO. 08NE049

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2 770	6	1 440	4.5	2 960	3 S	767	3.5	1 650	2 S	285	1
2		2 730	5	1 180		3 070	4	1 060		1 870	11	1 780	2
3	6.0	2 700	5 S	1 170		3 100	6	1 610		1 970	15	2 550	3
4		2 680	4	926		3 090	3	801		1 960	14	2 370	4
5		2 720	4	940		2 920	3	757		1 940	14	2 350	5
6		2 780	4	961		3 140	3	814		1 910	13	2 150	6
7		2 800	4	968		3 090	2	534	3.0	1 850	12 S	1 920	7
8		2 890	4	999	3.5	3 080	2 S	532		1 740	11	1 650	8
9		2 990	7	1 810		3 080	2	532		1 580	11	1 500	9
10	5.0	3 050	10 S	2 640		2 940	3	762		1 600	11	1 520	10
11		2 960	5	1 280		3 120	5	1 350		1 590	10	1 370	11
12		2 860	3	741		2 980	2	515		1 490	10	1 290	12
13		2 880	3	746		3 090	2	534		1 350	10	1 170	13
14		2 850	3	739		3 100	2	536	4.5	1 350	10 S	1 170	14
15		2 870	3	744	3.5	2 860	2 S	494		1 290	10	1 110	15
16	5.0	2 870	3 S	744		2 660	2	460		1 170	10	1 010	16
17		2 860	3	741		2 580	2	446		1 090	9	848	17
18		2 850	3	739		2 720	3	705		1 090	9	848	18
19		2 820	3	731		2 690	3	697		1 130	8	781	19
20		2 800	3	726		2 690	3	697		1 190	8	823	20
21		2 810	4	971		2 530	3	656		1 190	7	720	21
22		2 820	4	975		2 130	2	368		1 230	7	744	22
23		2 830	5	1 220		1 820	2	314		1 280	6	664	23
24	4.5	2 850	5 S	1 230		1 710	2	295		1 280	6	664	24
25		2 890	6	1 500		1 720	2	297		1 290	5	557	25
26		2 980	6	1 540		1 590	2	275		1 300	5	562	26
27		3 000	6	1 560		1 580	2	273		1 310	4	453	27
28		2 970	4	1 030		1 550	2	268		1 320	4	456	28
29		2 860	4	988					4.0	1 300	3 S	337	29
30		3 010	5	1 300						1 260	3	327	30
31		2 950	4	1 020						1 250	3	324	31
TOTAL		88 700		34 299		73 590		17 349		44 820		34 303	TOTAL
MEAN		2 860		1 110		2 630		620		1 450		1 110	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1 250	3	324		1 390	12	1 440	10.5	3 490	12 S	3 620	1
2		1 240	4	429		1 470	16	2 030	11.0	3 430	7 S	2 070	2
3		1 240	4	429	7.0	1 350	7 S	816	10.5	3 420	8 S	2 360	3
4		1 240	6	643	7.0	1 210	4 S	418	10.0	3 480	12 S	3 610	4
5		1 070	7	647	7.0	1 210	5 S	523	10.0	3 470	12 S	3 600	5
6	5.0	843	5 S	364	7.5	1 200	7 S	726	10.0	3 510	8 S	2 430	6
7		841	5	363	7.5	1 170	6 S	607	10.0	3 480	5 S	1 500	7
8		842	5	364	7.5	1 180	5 S	510	10.5	3 390	4 S	1 170	8
9	5.0	842	6 S	436	7.5	1 190	8 S	823		3 350	6	1 740	9
10		820	5	354	8.0	1 260	4 S	435	10.0	3 340	5 S	1 440	10
11		816	4	282	7.5	1 560	3 S	404	10.0	3 360	6 S	1 740	11
12	5.0	738	4 S	254	7.0	1 570	4 S	543	10.5	3 370	3 S	874	12
13		655	3	170	8.0	1 570	14 S	1 900	10.5	3 250	3 S	842	13
14		668	3	173	8.0	1 570	10 S	1 360	10.5	3 260	4 S	1 130	14
15		612	3	159	8.5	1 640	8 S	1 130	10.5	3 260	4 S	1 130	15
16		624	4	216	8.5	1 670	9 S	1 300	10.5	3 270	3 S	848	16
17		557	6	289	8.5	1 900	11 S	1 810	10.5	3 280	4 S	1 130	17
18		555	7	336	8.0	2 170	6 S	1 120	11.0	3 270	3 S	848	18
19	7.5	659	9 S	512	8.0	2 210	6 S	1 150	11.0	3 270	3 S	848	19
20		828	10	715	8.0	2 270	8 S	1 570	11.0	3 290	4 S	1 140	20
21		862	10	745	8.0	2 340	9 S	1 820	11.0	3 280	3 S	850	21
22		952	9	740	8.0	2 540	11 S	2 410	10.5	3 250	3 S	842	22
23		942	8	651	8.0	2 560	9 S	1 990	11.0	3 270	3 S	848	23
24		1 010	8	698	8.5	2 700	8 S	1 870	11.5	3 220	4 S	1 110	24
25		1 030	7	623	8.5	2 910	20 S	5 030	12.0	3 140	6 S	1 630	25
26	6.5	1 090	7 S	659	8.5	3 020	33 S	8 610		3 160	8	2 180	26
27		1 210	7	732	9.0	2 930	11 S	2 780	13.0	3 190	9 S	2 480	27
28		1 200	7	726	10.0	2 980	7 S	1 800	13.5	3 190	5 S	1 380	28
29		1 230	7	744	10.0	3 190	13 S	3 580	13.5	3 150	5 S	1 360	29
30	7.5	1 260	8 S	871	10.0	3 290	16 S	4 550	13.0	3 150	4 S	1 090	30
31					10.5	3 440	23 S	6 840					31
TOTAL		27 722		14 648		62 660		61 895		99 240		47 840	TOTAL
MEAN		924		488		2 020		2 000		3 310		1 590	MEAN

COLUMBIA RIVER AT BIRCHBANK - STATION NO. 08NE049

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)		JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)		AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)		SEP DAILY LOAD (t)	DAY
1		3 270	4		1 130		4 120	3		1 070		1 850	4		639	1
2	13.0	3 290	3	S	853		4 190	3		1 090		1 780	3		461	2
3		3 260	3		845		4 310	2		745		1 980	3		513	3
4		3 290	3		853		4 150	2		717		1 960	3		508	4
5		3 570	4		1 230	15.0	3 960	2	S	684		1 920	3		498	5
6		4 140	10		3 580		3 890	1		336	15.0	1 910	2	S	330	6
7		4 790	15		6 210		3 900	1		337		1 900	2		328	7
8		4 650	15		6 030		4 040	1		349		1 910	2		330	8
9	11.0	4 280	11	S	4 070		4 000	1		346		1 910	2		330	9
10		3 870	6		2 010	15.0	3 980	1	S	344		2 020	2		349	10
11	12.5	3 400	3	S	881		3 920	1		339		2 060	2		356	11
12		3 160	3		819		3 890	2		672		1 980	2		342	12
13		3 010	3		780	15.0	3 830	2	S	662		1 800	2		311	13
14		3 650	4		1 260		3 710	2		641		1 760	2		304	14
15	13.0	4 080	4	S	1 410		3 550	2		613	17.0	1 840	2	S	318	15
16		4 150	5		1 790		3 560	2		615		1 840	2		318	16
17		4 100	4		1 420		3 510	2		607		1 840	2		318	17
18		4 000	3		1 040	16.0	3 570	2	S	617		1 850	2		320	18
19		3 800	3		985		3 530	1		305		1 860	2		321	19
20	14.0	3 770	3	S	977		3 320	1		287		1 770	4		612	20
21		3 720	3		964		3 230	1		279		1 700	8		1 180	21
22		3 740	3		969		3 120	1		270		1 710	7		1 030	22
23		3 630	3		941		3 070	1		265		1 710	6		886	23
24		3 550	3		920	17.0	3 090	1	S	267	14.0	1 700	5	S	734	24
25	14.5	3 720	4	S	1 290		3 010	2		520		1 640	5		708	25
26		3 670	4		1 270		2 870	3		744		1 570	5		678	26
27		3 560	4		1 230		3 040	3		788		1 750	4		605	27
28		3 960	4		1 370		3 040	4		1 050		1 960	4		677	28
29		4 260	4		1 470		2 870	5		1 240		1 970	4		681	29
30	15.5	4 390	4	S	1 520	15.0	2 800	5	S	1 210	14.0	1 970	3	S	511	30
31		4 470	4		1 540		2 380	4		823						31
TOTAL		118 200			51 657		109 450			18 832		55 420			15 496	TOTAL
MEAN		3 810			1 670		3 530			607		1 850			517	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)		OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)		NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)		DEC DAILY LOAD (t)	DAY
1		1 970	3		511	10.0	1 340	2	S	232		1 870	9		1 450	1
2		2 000	3		518		1 370	2		237	6.5	1 890	7	S	1 140	2
3		2 100	2		363		1 310	2		226		1 920	7		1 160	3
4		1 920	2		332		1 290	1		111		1 880	6		975	4
5		1 490	2		257		1 340	3		347		1 990	6		1 030	5
6		1 180	1		102		1 380	4		477	6.0	2 180	7	S	1 320	6
7		1 100	1		95.0		1 330	6		689		2 250	9		1 750	7
8		1 040	1		89.9	8.5	1 360	7	S	823		2 380	8		1 650	8
9		1 040	1		89.9		1 560	8		1 080		2 320	8		1 600	9
10		1 040	4		359		1 500	7		907		2 330	7		1 410	10
11		1 160	4		401		1 540	8		1 060		2 170	7		1 310	11
12		1 290	2		223		1 630	9		1 270		2 150	6		1 110	12
13		1 290	1		111		1 710	9		1 330		2 080	5		899	13
14		1 220	1		105		1 780	10		1 540	6.0	2 050	4	S	708	14
15	10.0	1 210	1	S	105	8.5	1 890	10	S	1 630		2 050	4		708	15
16		1 220	1		105		1 700	7		1 030		2 030	4		702	16
17		1 560	2		270		1 570	6		814		2 020	4		698	17
18	12.0	1 660	2	S	287		1 780	6		923		2 020	4		698	18
19		1 760	3		456		1 860	5		804	5.5	1 960	4	S	677	19
20		1 750	3		454	8.0	1 700	5	S	734		2 010	4		695	20
21		1 750	4		605		1 600	4		553		2 180	4		753	21
22		1 690	5		730	8.0	1 310	4	S	453		2 270	4		785	22
23		1 650	5		713		1 050	3		272		2 260	4		781	23
24	11.0	1 620	5	S	700		1 070	3		277		2 270	4		785	24
25		1 390	5		600		1 100	3		285		2 120	4		733	25
26		1 290	5		557		1 270	3		329	5.0	2 100	4	S	726	26
27		1 320	4		456		1 260	3		327		1 840	4		636	27
28		1 330	4		460		1 190	2		206		1 660	4		574	28
29		1 340	4		463	7.0	1 580	5	S	683		1 650	4		570	29
30		1 380	3		358		1 870	11		1 780		1 660	3		430	30
31		1 390	2		240							1 830	3		474	31
TOTAL		45 150			11 115.8		44 240			21 429		63 390			28 937	TOTAL
MEAN		1 460			359		1 470			714		2 040			933	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 357 800.8 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	5	
MAXIMUM DAILY	33	ON MAY 26
MINIMUM DAILY	1	ON AUG 06

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	980	
MAXIMUM DAILY	8 610	ON MAY 26
MINIMUM DAILY	89.9	ON OCT 08

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 10 40 N
LONG 117 42 59 W
DRAINAGE AREA 88 100 km^2
REGULATED FLOW SINCE 1931
INTERNATIONAL GAUGING STATION

REMARKS - SEDIMENT SAMPLES COLLECTED AT 08NE003

BRITISH COLUMBIA

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.181 B				0.128 B				0.130 B			1
2		0.180 B				0.125 B				0.127 B			2
3		0.181 B				0.125 B				0.119 B			3
4		0.185 B				0.128 B				0.117 B			4
5		0.184 B				0.126 B				0.117 B			5
6		0.180 B				0.120 B				0.118 B			6
7		0.173 B				0.112 B				0.121 B			7
8		0.166 B				0.102 B				0.124 B			8
9		0.166 B				0.094 B				0.125 B			9
10		0.170 B				0.091 B				0.124 B			10
11		0.180 B				0.091 B				0.118 B			11
12		0.184 B				0.092 B				0.116 B			12
13		0.182 B				0.094 B				0.116 B			13
14		0.175 B				0.100 B				0.117 B			14
15		0.171 B				0.110 B				0.117 B			15
16		0.171 B				0.127 B				0.116 B			16
17		0.172 B				0.129 B				0.112 B			17
18		0.176 B				0.128 B				0.103 B			18
19		0.191 B				0.124 B				0.099 B			19
20		0.210 B				0.122 B				0.097 B			20
21		0.226 B				0.125 B				0.096 B			21
22		0.249 B				0.129 B				0.098 B			22
23		0.240 B				0.127 B				0.101 B			23
24		0.205 B				0.122 B				0.106 B			24
25		0.185 B				0.123 B				0.112 B			25
26		0.153 B				0.124 B				0.115 B			26
27		0.139 B				0.126 B				0.116 B			27
28		0.132 B				0.129 B				0.118 B			28
29		0.128 B								0.118 B			29
30		0.126 B								0.116 B			30
31		0.128 B								0.112 B			31
TOTAL		5.489				3.273				3.541			TOTAL
MEAN		0.177				0.117				0.114			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.112 B				4.22				8.48 A	333 E	244	1
2		0.113 B				3.62			8.0	6.60 E	207 S	118	2
3		0.115 B				3.13				4.72 E	126	51.4	3
4		0.119 B				3.24				2.84 A	76	18.6	4
5		0.123 B				3.29				2.65	43 S	9.85	5
6		0.124 B				3.33				2.39	34	7.02	6
7		0.124 B				3.56				2.20	28	5.32	7
8		0.125 B				5.44				2.03	23	4.03	8
9		0.125 B				5.68			9.0	1.80	20 S	3.11	9
10		0.126 B				4.54				1.65	19	2.71	10
11		0.127 B				3.49				1.57	18	2.44	11
12		0.129 B				3.10				1.58	17	2.32	12
13		0.136 B				3.12				1.57	16	2.17	13
14		0.153 B				3.07				1.53	15	1.98	14
15		0.216 B				2.84			12.0	1.34	14 S	1.62	15
16		0.200 B				2.63				1.29	13	1.45	16
17		0.200				2.59				1.22	12	1.26	17
18		0.224				2.61			12.0	1.17	11 S	1.11	18
19		0.409				2.63				1.17	11	1.11	19
20		0.667			9.0	2.67	181 S	41.8		1.04	11	0.99	20
21		1.47				2.64	258	58.8		0.947	11	0.90	21
22		1.77			9.0	2.77	273 S	65.3		0.841	11	0.80	22
23		2.44				2.48	171	36.6		0.775	11	0.74	23
24		4.59				2.39	98	20.2		0.675	11	0.64	24
25		3.18			9.0	2.45	89 S	18.8		0.610	11	0.58	25
26		2.55				5.77	202	101		0.524	11	0.50	26
27		2.36				4.43	138	52.8		0.501	10	0.43	27
28		2.59				3.17	99	27.1		0.492	10	0.43	28
29		2.83			10.0	2.77	74 S	17.7		0.441	10	0.38	29
30		2.93				2.62	69	15.6		0.405	10	0.35	30
31						7.19	339 E	211					31
TOTAL		30.377				107.48				55.051		486.24	TOTAL
MEAN		1.01				3.47				1.84		16.2	MEAN

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.344	10	0.30		0.658	4	0.23		0.114	1	0.01	1
2		0.301	10	0.26		0.582	4	0.20		0.127	1	0.01	2
3		0.277	10	0.24		0.474	4	0.16		0.127	1	0.01	3
4		0.245	9	0.19		0.398	4	0.14		0.132	1	0.01	4
5		0.224	9	0.17		0.344	4	0.12		0.121	1	0.01	5
6		0.213	9	0.17		0.306	3	0.08		0.111	1	0.01	6
7		0.199	9	0.15		0.269	3	0.07		0.105	1	0.01	7
8		0.186	8	0.13		0.243	3	0.06		0.099	1	0.01	8
9		0.174	8	0.12		0.228	3	0.06		0.091	1	0.01	9
10		0.166	8	0.11		0.204	3	0.05	13.0	0.086	1 S	0.01	10
11		0.164	7	0.10		0.183	3	0.05		0.080	1	0.01	11
12		0.172	7	0.10		0.169	3	0.04		0.075	1	0.01	12
13		0.165	7	0.10		0.154	3	0.04		0.074	1	0.01	13
14		0.226	7	0.14		0.148	3	0.04		0.074	1	0.01	14
15		0.222	6	0.12		0.141	3	0.04		0.075	1	0.01	15
16		0.186	6	0.10		0.136	3	0.04		0.076	1	0.01	16
17		0.165	5	0.07		0.131	3	0.03		0.074	1	0.01	17
18		0.152	5	0.07		0.131	3	0.03		0.074	1	0.01	18
19		0.146	4	0.05		0.125	2	0.02		0.074	1	0.01	19
20		0.148	4	0.05		0.121	2	0.02		0.072	1	0.01	20
21		0.799	8	0.55	15.0	0.119	2 S	0.02		0.071	1	0.01	21
22		0.957	10	0.83		0.115	2	0.02		0.075	1	0.01	22
23		2.70	21	4.90		0.113	2	0.02		0.083	1	0.01	23
24		2.36	6	1.22		0.110	1	0.01		0.081	1	0.01	24
25		1.74	5	0.75		0.110	1	0.01		0.079	1	0.01	25
26		1.35	5	0.58		0.124	1	0.01		0.079	1	0.01	26
27		1.05	5	0.45		0.124	1	0.01		0.078	1	0.01	27
28		0.895	5	0.39		0.115	1	0.01		0.080	1	0.01	28
29		0.951	4	0.33		0.107	1	0.01		0.078	1	0.01	29
30		0.807	4	0.28		0.106	1	0.01	8.0	0.077	3 S	0.02	30
31		0.791	4	0.27		0.107	1	0.01					31
TOTAL		18.475		13.29		6.395		1.66		2.682		0.31	TOTAL
MEAN		0.596		0.43		0.206		0.05		0.088		0.01	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.096	3	0.02		0.077 B				0.022 B			1
2		0.096	2	0.02		0.071 B				0.021 B			2
3		0.087	2	0.02		0.066 B				0.016 B			3
4		0.087	2	0.02		0.060 B				0.011 B			4
5		0.083	2	0.01		0.057 B				0.010 B			5
6		0.082	2	0.01		0.056 B				0.009 B			6
7		0.095	4	0.03		0.054 B				0.007 B			7
8		0.093	3	0.02		0.051 B				0.003 B			8
9		0.093	2	0.02		0.046 B				0.002 B			9
10		0.089	2	0.02		0.046 B				0.001 B			10
11		0.091	2	0.02		0.047 B				0 B			11
12		0.091	2	0.02		0.048 B				0 B			12
13		0.086	2	0.01		0.051 B				0 B			13
14		0.086	1	0.01		0.038 B				0.001 B			14
15		0.088	1	0.01		0.032 B				0.002 B			15
16		0.092	2	0.02		0.029 B				0.004 B			16
17		0.091	2	0.02		0.029 B				0.005 B			17
18		0.086	1	0.01		0.031 B				0.007 B			18
19		0.080	1	0.01		0.033 B				0.008 B			19
20		0.068 B	1	0.01		0.032 B				0.009 B			20
21	1.5	0.053 B	1 S	0		0.029 B				0.007 B			21
22		0.046 B	1	0		0.025 B				0.006 B			22
23		0.045 B	1	0		0.024 B				0.005 B			23
24		0.045 B	1	0		0.025 B				0.005 B			24
25		0.046 B	1	0		0.025 B				0.006 B			25
26		0.046 B	1	0		0.024 B				0.004 B			26
27		0.045 B	1	0		0.025 B				0.003 B			27
28		0.044 B	1	0		0.028 B				0.002 B			28
29		0.044 B	1	0		0.024 B				0.001 B			29
30		0.047 B	1	0		0.021 B				0.001 B			30
31		0.058 B	1	0.01						0.001 B			31
TOTAL		2.279		0.34		1.204				0.179			TOTAL
MEAN		0.073		0.01		0.040				0.005			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 32 07 N
LONG 121 35 40 W
DRAINAGE AREA 85.5 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 20	12:30	2.67H	9.0	181 K	52	57	67	87	94	97	99	100				BNW
MAY 22	11:30	2.77H	9.0	289 K	50	59	73	85	93	98	99	100				BNW
JUN 02	12:40	6.60	8.0	207 K	21	28	41	58	70	78	84	91	97	100		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

DUCK CREEK NEAR WYNNDEL - STATION NO. 08NN016

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.575	2	0.10		0.413	2	0.07		0.569	2	0.10	1
2		0.555	2	0.10		0.408	2	0.07		0.564	1	0.05	2
3		0.544	2	0.09		0.396	2	0.07		0.564	1	0.05	3
4		0.524	2	0.09		0.402	2	0.07		0.572	1	0.05	4
5		0.524	2	0.09		0.402	2	0.07		0.583	2	0.10	5
6		0.501	2	0.09		0.394	1	0.03		0.549	2	0.09	6
7		0.487	1	0.04		0.385	1	0.03		0.530	1	0.05	7
8		0.476	1	0.04		0.371	1	0.03		0.532	1	0.05	8
9		0.450	1	0.04		0.345	1	0.03		0.549	1	0.05	9
10		0.439	1	0.04		0.317	1	0.03		0.547	1	0.05	10
11		0.430	1	0.04		0.365	1	0.03		0.549	1	0.05	11
12		0.413	1	0.04	0.5	0.411	3 S	0.11	6.0	0.580	1 S	0.05	12
13		0.408	1	0.04		0.405	6	0.21		0.600	1	0.05	13
14		0.399	1	0.03		0.402	5	0.17		0.612	1	0.05	14
15	0.5	0.396	1 S	0.03		0.425	5	0.18		0.648	2	0.11	15
16		0.388	1	0.03		0.521	7	0.32	5.0	0.716	3 S	0.19	16
17		0.379	1	0.03		0.549	7	0.33		0.714	3	0.19	17
18		0.391	1	0.03		0.575	8	0.40		0.685	3	0.18	18
19		0.388	1	0.03		0.705	8	0.49	4.5	0.637	2 S	0.11	19
20		0.382	1	0.03		0.682	8	0.47		0.640	2	0.11	20
21		0.377	1	0.03		0.623	7	0.38		0.646	1	0.06	21
22		0.396	1	0.03		0.583	6	0.30		0.660	1	0.06	22
23		0.464	2	0.08		0.589	5	0.25	5.0	0.646	1 S	0.06	23
24		0.566	2	0.10		0.612	5	0.26		0.654	2	0.11	24
25		0.481	2	0.08		0.609	5	0.26		0.663	4	0.23	25
26		0.464	2	0.08		0.586	4	0.20	4.0	0.665	5 S	0.29	26
27		0.447	2	0.08		0.566	3	0.15		0.671	5	0.29	27
28		0.450	2	0.08		0.569	3	0.15		0.699	3	0.18	28
29		0.442	2	0.08						0.708	2	0.12	29
30		0.428	2	0.07					5.0	0.714	1 S	0.06	30
31		0.422	2	0.07						0.719	1	0.06	31
TOTAL		13.986		1.83		13.610		5.16		19.385		3.25	TOTAL
MEAN		0.451		0.06		0.486		0.18		0.625		0.10	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.739	1	0.06	5.5	1.99	18 S	3.09		5.04	21	9.14	1
2	5.0	0.699	1 S	0.06		1.92	16	2.65	8.0	4.13	17 S	6.07	2
3		0.685	1	0.06	7.5	1.78	10 S	1.54		4.13	16	5.71	3
4		0.646	1	0.06	5.0	1.74	8 S	1.20	6.0	4.76	15 S	6.17	4
5		0.680	0	0	6.0	1.66	8 S	1.15		3.74	15	4.85	5
6	5.5	0.651	0 S	0		1.61	6	0.83	8.0	3.91	14 S	4.73	6
7		0.646	0	0	7.0	1.55	4 S	0.54		3.45	11	3.28	7
8		0.657	0	0		1.52	4	0.53	7.0	3.03	9 S	2.36	8
9	4.0	0.660	1 S	0.06	7.0	1.53	4 S	0.53	6.0	3.09 A	10 S	2.67	9
10		0.631	2	0.11		1.55	4	0.54	7.0	3.19	15 S	4.13	10
11		0.637	2	0.11	8.0	1.63	6 S	0.84		2.44	17	3.58	11
12		0.651	2	0.11		1.62	6	0.84	7.0	1.89	9 S	1.47	12
13	4.0	0.629	1 S	0.05	8.5	1.62	5 S	0.70		2.48	13	2.79	13
14		0.643	1	0.06		1.64	7	0.99	7.5	2.35	15 S	3.05	14
15		0.705	2	0.12	5.5	2.73	50 S	11.8		2.04	13	2.29	15
16	7.0	0.776	2 S	0.13		2.46	32	6.80	8.0	1.94	11 S	1.84	16
17		0.787	2	0.14	8.0	2.32	14 S	2.81		2.02	11	1.92	17
18		0.841	3	0.22		2.37	13	2.66	6.5	1.95	7 S	1.18	18
19		0.951	4	0.33	9.0	2.79	17 S	4.10		2.12	8	1.47	19
20	7.0	1.08	7 S	0.65		3.14	28	7.60	7.0	2.48	14 S	3.00	20
21		1.12	8	0.77	7.0	3.51	31 S	9.40		2.25	12	2.33	21
22		1.13	8	0.78		3.99	34	11.7	7.0	2.15	9 S	1.67	22
23	9.0	1.26	11 S	1.20	8.0	3.77	34 S	11.1		2.22	9	1.73	23
24		1.59	11	1.51		4.64	74	29.7	9.0	2.10	7 S	1.27	24
25	8.0	1.49	8 S	1.03	7.0	5.80	233 S	117		2.12	8	1.47	25
26		1.43	8	0.99		7.84	154	104	9.5	2.21	12 S	2.29	26
27	7.0	1.42	6 S	0.74	9.5	5.47	62 S	29.3		2.24	13	2.52	27
28		1.45	5	0.63		7.39	56	35.8	10.0	2.18	8 S	1.51	28
29	4.0	1.47	4 S	0.51	9.5	6.34	57 S	31.2		2.28	7	1.38	29
30		1.63	8	1.13		6.09	44	23.2	11.0	2.24	7 S	1.35	30
31					6.5	5.21	27 S	12.2					31
TOTAL		28.384		11.62		99.22		466.34		82.17		89.22	TOTAL
MEAN		0.946		0.39		3.20		15.0		2.74		2.97	MEAN

BRITISH COLUMBIA

DUCK CREEK NEAR WYNNDEL - STATION NO. 08NN016

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		2.28	7	1.38		0.981	2	0.16		0.755	3	0.20	1
2		2.17	7	1.31		0.930	2	0.16		0.640	2	0.11	2
3		2.13	6	1.10	10.0	0.922	2 S	0.16		0.612	2	0.11	3
4		2.12	6	1.10		0.904	2	0.16		0.631	2	0.11	4
5		2.11	6	1.09		0.886	2	0.15		0.599	1	0.05	5
6	10.0	2.37	13 S	2.66		0.873	2	0.15		0.588	1	0.05	6
7		2.52	8	1.74		0.850	2	0.15	14.0	0.587	1 S	0.05	7
8		2.25	4	0.78		0.816	2	0.14		0.578	1	0.05	8
9		2.15	4	0.74		0.807	2	0.14		0.564	1	0.05	9
10		2.14	3	0.55	15.0	0.797	2 S	0.14		0.559	1	0.05	10
11		2.09	3	0.54		0.780	2	0.13		0.553	1	0.05	11
12		2.05	3	0.53		0.765	2	0.13		0.539	1	0.05	12
13	9.0	2.16	4 S	0.75		0.772	2	0.13		0.540	1	0.05	13
14	7.5	2.16 A	3 S	0.56		0.787	2	0.14	14.0	0.535	1 S	0.05	14
15		2.11	3	0.55		0.765	2	0.13		0.530	1	0.05	15
16		1.95	3	0.51		0.762	2	0.13		0.525	1	0.05	16
17		1.83	3	0.47	13.3	0.752	2 S	0.13		0.517	1	0.04	17
18		1.73	3	0.45		0.734	2	0.13		0.517	1	0.04	18
19		1.65	3	0.43		0.717	2	0.12		0.581	1	0.05	19
20	11.0	1.67	4 S	0.58		0.723	2	0.12		0.539	1	0.05	20
21		1.62	4	0.56		0.707	2	0.12	9.0	0.588	1 S	0.05	21
22		1.49	3	0.39		0.695	1	0.06		0.552	0	0	22
23		1.39	3	0.36		0.681	1	0.06	5.0	0.540	0 S	0	23
24		1.32	3	0.34	15.0	0.659	1 S	0.06		0.529	0	0	24
25		1.33	3	0.34		0.645	1	0.06		0.521	0	0	25
26		1.19	3	0.31		0.635	1	0.05		0.511	0	0	26
27	11.0	1.14	3 S	0.30		0.627	1	0.05		0.521	0	0	27
28		1.10	3	0.29		0.619	1	0.05	10.0	0.592	2 S	0.10	28
29		1.08	3	0.28		0.633	1	0.05		0.571	2	0.10	29
30		1.04	3	0.27		0.629	1	0.05		0.553	2	0.10	30
31		0.991	2	0.17	11.0	0.618	2 S	0.11					31
TOTAL		55.331		21.43		23.431		3.52		16.967		1.66	TOTAL
MEAN		1.78		0.69		0.756		0.11		0.565		0.06	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.537	1	0.05		0.492	3	0.13		0.440	2	0.08	1
2		0.635	2	0.11	5.0	0.488	3 S	0.13		0.447	2	0.08	2
3		0.548	1	0.05		0.474	3	0.12	0.5	0.429	2 S	0.07	3
4		0.529	1	0.05		0.467	2	0.08		0.432	2	0.07	4
5	7.0	0.515	1 S	0.04	5.0	0.463	1 S	0.04		0.439	3	0.11	5
6		0.613	2	0.11		0.456	1	0.04		0.456	3	0.12	6
7		0.590	2	0.10		0.451	1	0.04		0.439	3	0.11	7
8		0.590	2	0.10		0.457	2	0.08		0.434	3	0.11	8
9		0.610	2	0.11	4.0	0.457	2 S	0.08		0.438	3	0.11	9
10		0.545	2	0.09		0.454	2	0.08		0.569	5	0.25	10
11		0.519	2	0.09		0.455	2	0.08		0.476	5	0.21	11
12	6.0	0.516	2 S	0.09		0.522	3	0.14		0.429	5	0.19	12
13		0.507	2	0.09		0.499	3	0.13		0.408	5	0.18	13
14		0.498	2	0.09		0.566	4	0.20	0.5	0.459	5 S	0.20	14
15		0.497	2	0.09		0.538	4	0.19		0.438	5	0.19	15
16		0.488	1	0.04	6.0	0.516	3 S	0.13		0.421	5	0.18	16
17		0.473	1	0.04		0.515	3	0.13		0.425	5	0.18	17
18		0.472	1	0.04		0.502	3	0.13		0.418	5	0.18	18
19	7.5	0.469	1 S	0.04		0.493	3	0.13		0.418	5	0.18	19
20	4.5	0.467	1 S	0.04		0.484	2	0.08		0.415	5	0.18	20
21		0.459	1	0.04		0.508	3	0.13		0.403	5	0.17	21
22		0.465	1	0.04		0.520	2	0.09		0.389	5	0.17	22
23		0.469	1	0.04	6.5	0.506	2 S	0.09		0.380	5	0.16	23
24		0.470	1	0.04		0.482	2	0.08		0.382	5	0.17	24
25		0.475	1	0.04		0.466	2	0.08		0.389	5	0.17	25
26	7.5	0.478	1 S	0.04		0.451	2	0.08		0.387	5	0.17	26
27		0.506	2	0.09		0.447	2	0.08		0.390	5	0.17	27
28		0.514	2	0.09		0.430	2	0.07		0.383	4	0.13	28
29		0.509	3	0.13		0.438	2	0.08		0.362	4	0.13	29
30		0.498	3	0.13	2.0	0.443	2 S	0.08		0.352	4	0.12	30
31		0.486	3	0.13						0.347	4	0.12	31
TOTAL		15.947		2.27		14.440		3.02		12.994		4.66	TOTAL
MEAN		0.514		0.07		0.481		0.10		0.419		0.15	MEAN

SUMMARY FOR THE MONTHS APR TO DEC

TOTAL SUSPENDED SEDIMENT LOAD 603.74 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		
MEAN	20	
MAXIMUM DAILY	233	ON MAY 25
MINIMUM DAILY	0	ON APR 05

SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	2.20	
MAXIMUM DAILY	117	ON MAY 25
MINIMUM DAILY	0	ON APR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 10 N
LONG 116 31 56 W
DRAINAGE AREA 57.0 km^2
NATURAL FLOW

A - MANUAL GAUGE

S - SAMPLE(S) COLLECTED THIS DAY

FRASER RIVER AT HANSARD - STATION NO. 08KA004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		395 B	60	2 050		205 B	8	142		165 B	13	185	1
2		355 B	50	1 530		195 B	7	118		160 B	10	138	2
3		320 B	40	1 110		185 B	7	112		160 B	9	124	3
4		300 B	30	778		180 B	6	93.3		155 B	8	107	4
5		290 B	22	551		170 B	6 S	88.1		155 B	7	93.7	5
6		275 B	15	356		165 B	5	71.3		150 B	7	90.7	6
7		265 B	8 S	183		160 B	5	69.1		150 B	6	77.8	7
8		255 B	7	154		150 B	5	64.8		150 B	5	64.8	8
9		248 B	7	150		145 B	4	50.1		145 B	5	62.6	9
10		235 B	7	142		140 B	4	48.4		145 B	5	62.6	10
11		230 B	6	119		135 B	4	46.7		145 B	5	62.6	11
12		220 B	6	114		130 B	3	33.7		145 B	6	75.2	12
13		215 B	6	111		130 B	3	33.7		145 B	6	75.2	13
14		205 B	5	88.6		135 B	5	58.3		145 B	6	75.2	14
15		200 B	5	86.4		150 B	12	156		146 B	7	88.3	15
16		190 B	5	82.1		165 B	22	314		148 B	8	102	16
17		185 B	5	79.9		175 B	35	529		149 B	9	116	17
18		180 B	5	77.8		190 B	47	772		150 B	9	117	18
19		175 B	5	75.6		205 B	59	1 050		151 B	9	117	19
20		180 B	5	77.8		212 B	72	1 320		152 B	10	131	20
21		180 B	5	77.8		215 B	80	1 490		152 B	9	118	21
22		190 B	6	98.5		220 B	81	1 540		152 B	9	118	22
23		200 B	6	104		215 B	74	1 370		153 B	8	106	23
24		220 B	7	133		210 B	61	1 110		153 B	9	119	24
25		235 B	8	162		200 B	48	829		154 B	10	133	25
26		250 B	9	194		185 B	37 S	591		157 B	12	163	26
27		250 B	9	194		180 B	25	389		162 B	17	238	27
28		245 B	9	191		170 B	17	250		170 B	25	367	28
29		240 B	9	187						190 B	38	624	29
30		225 B	8	156						210 B	55	998	30
31		215 B	8	149						229 B	85	1 680	31
TOTAL		7 368		9 562.5		4 917		12 739.5		4 893		6 629.7	TOTAL
MEAN		238		308		176		455		158		214	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		227 B	80	1 570		406	91 S	3 190		1 770	374	57 200	1
2		219 B	70	1 320		483	127 S	5 300		1 680	333	48 300	2
3		209 B	55	993		549	260 S	12 300		1 570	283	38 400	3
4		198 B	45	770		529	220 S	10 100		1 540	233	31 000	4
5		188 B	39	633		490	131 S	5 550		1 550	195 S	26 100	5
6		175 B	33	499		486	101 S	4 240		1 440	180	22 400	6
7		160 B	30	415		506	90 S	3 930		1 350	164 S	19 100	7
8		150 B	26	337		497	85 S	3 650		1 220	120 S	12 600	8
9		138 B	24	286		497	72 S	3 090		1 070	90	8 320	9
10		133 B	22	253		529	91 S	4 160		953	76	6 260	10
11		130 B	20	225		546	90 S	4 250		899	70	5 440	11
12		127 B	19	208		525	89 S	4 040		918	71	5 630	12
13		126 B	19	207		519	81 S	3 630		912	68	5 360	13
14		126 E	19	207		568	105 S	5 150		852	61	4 490	14
15		128 A	20 S	221		652	169 S	9 520		833	79	5 690	15
16		136	27 S	317		733	239 S	15 100		882	119 S	9 070	16
17		150	33 S	428		830	310 S	22 200		945	163	13 300	17
18		160	40 S	553		893	311 S	24 000		922	169	13 500	18
19		168	46 S	668		951	284 S	23 300		844	149	10 900	19
20		181	54 S	844		1 040	311 S	27 900		795	115	7 900	20
21		216	66 S	1 230		1 170	341 S	38 500		825	97	6 910	21
22		246	84 S	1 790		1 370	368	43 600		817	72	5 080	22
23		295	100 S	2 550		1 560	363	48 900		766	59	3 900	23
24		406	175 S	6 140		1 590	342	47 000		732	62	3 920	24
25		565	786	38 400		1 640	331	46 900		721	72	4 490	25
26		548	622 S	29 480		1 760	362 S	55 000		715	82	5 070	26
27		455	257	10 100		1 920	493 S	81 800		729	87	5 480	27
28		392	135 S	4 570		1 880	376	61 100		757	87	5 690	28
29		366	89 S	2 810		1 590	298	40 900		753	94	6 120	29
30		382	102 S	3 370		1 400	269	32 500		761	102	6 710	30
31						1 510	329	42 900					31
TOTAL		7 100		111 314		29 619		729 700		30 521		404 330	TOTAL
MEAN		237		3 710		955		23 500		1 020		13 500	MEAN

BRITISH COLUMBIA

FRASER RIVER AT HANSARD - STATION NO. 08KA004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		855	127	9 380		771				393			1
2		889	147	11 300		723				377			2
3		877	171	13 000		676				440			3
4		986	213	15 100		637				453			4
5		1 160	236	23 700		606				391			5
6		1 130	213	20 800		582				373			6
7		1 110	199	19 100		583				358			7
8		1 050	184 S	16 700		593				346			8
9		881	159 S	12 100		610				357			9
10		738	109	6 950		631				396			10
11		649	49 S	2 750		639				439			11
12		612	33 S	1 740		648				422			12
13		624	32 S	1 730		673				374			13
14		682	40 S	2 360		677				343			14
15		741	88 S	5 630		637				309			15
16		780	121 S	8 150		598				284			16
17		782	126	8 510		585				283			17
18		800	133	9 190		565				325			18
19		845	148	10 800		560				370			19
20		899	171	13 300		545				407			20
21		918	184	14 600		532				418			21
22		926	176	14 100		509				355			22
23		901	163	12 700		474				297			23
24		855	142	10 500		464				262			24
25		814	125	8 790		466				241			25
26		791	106	7 240		482				225			26
27		745	67	4 310		518				210			27
28		738	49	3 120		537				196			28
29		785	69	4 680		506				186			29
30		855	98	7 240		439				182			30
31		840	76	5 520		407							31
TOTAL		26 258		308 090		17 873				10 012			TOTAL
MEAN		847		9 940		577				334			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		182				243				142 B			1
2		185				379				143 B			2
3		199				428				146 B			3
4		205				460				147 B			4
5		195				466				145 B			5
6		182				416				142 B			6
7		173				358				141 B			7
8		169				330				138 B			8
9		178				324				136 B			9
10		191				311				134 B			10
11		190				292				131 B			11
12		181				278				129 B			12
13		173				286				127 B			13
14		163				303				125 B			14
15		158				299				122 B			15
16		155				285				120 B			16
17		161				274				119 B			17
18		192				255				118 B			18
19		197				238				117 B			19
20		182				216				116 B			20
21		169				210				115 B			21
22		160				207				114 B			22
23		151				200				113 B			23
24		149				192				112 B			24
25		158				182				111 B			25
26		177				174				110 B			26
27		199				168				109 B			27
28		208				161				108 B			28
29		200				148				107 B			29
30		203				143 B				105 B			30
31		212								103 B			31
TOTAL		5 597				8 222				3 845			TOTAL
MEAN		181				274				124			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 786 ON APR 25

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 81 800 ON MAY 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 04 43 N
LONG 121 50 52 W
DRAINAGE AREA 18 000 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

FRASER RIVER AT HANSARD - STATION NO. 08KA004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 26	09:35	548	H	4.0	795	K	17	25	45	69	83	92	98	100				BNW
MAY 03	20:10	549	H		370	K	13	20	40	62	76	84	93	98	100			BNW
MAY 17	11:04	830	H		418	K	2	4	15	34	55	75	89	97	100			BNW
MAY 19	12:50	951	H		350	K	2	5	15	35	58	78	90	97	99	100		BNW
MAY 20	13:45	1 010			310	R	7	11	25	42	61	77	90	97	99	100		BNW
MAY 20	15:40	1 040	H		381	K	9	11	23	37	56	75	89	96	99	100		BNW
MAY 26	13:00	1 760	H		477	K	4	7	15	30	46	65	86	98	100			BNW
MAY 27	21:15	1 920	H		615	K	5	7	18	36	53	70	85	94	99	100		BNW
JUN 04	13:02	1 540	H		533	K	4	5	16	32	46	65	84	95	99	100		BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

FRASER RIVER AT HANSARD - STATION NO. 08KA004

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 0.004 0.008 0.016 0.031 0.062 0.125 0.250 0.500 1.000 2.000	METHOD OF ANALYSIS
MAY 20	13:45	1 010		30.5	0.15	131	DATA NOT AVAILABLE	
					1.55	155	DATA NOT AVAILABLE	
					3.11	178	DATA NOT AVAILABLE	
					4.15	200	DATA NOT AVAILABLE	
					5.03	522	DATA NOT AVAILABLE	
					5.18		STREAMBED	
				65.5	0.15	244	DATA NOT AVAILABLE	
					1.43	247	DATA NOT AVAILABLE	
					2.87	280	DATA NOT AVAILABLE	
					3.84	278	DATA NOT AVAILABLE	
					4.63	404	DATA NOT AVAILABLE	
					4.79		STREAMBED	
				112.8	0.15	278	DATA NOT AVAILABLE	
					1.62	339	DATA NOT AVAILABLE	
					3.23	421	DATA NOT AVAILABLE	
					4.33	444	DATA NOT AVAILABLE	
					5.24	615	DATA NOT AVAILABLE	
					5.39		STREAMBED	
				140.2	0.15	304	DATA NOT AVAILABLE	
					1.16	345	DATA NOT AVAILABLE	
					2.32	380	DATA NOT AVAILABLE	
					3.08	398	DATA NOT AVAILABLE	
					3.69	428	DATA NOT AVAILABLE	
					3.84		STREAMBED	
				213.4	0.15	262	DATA NOT AVAILABLE	
					1.65	297	DATA NOT AVAILABLE	
					3.29	313	DATA NOT AVAILABLE	
					4.36	354	DATA NOT AVAILABLE	
					5.30	465	DATA NOT AVAILABLE	
					5.46		STREAMBED	

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4 410	61	23 200		2 380	33	6 790		2 040	26	4 580	1
2		4 390	61	23 100		2 270	27	5 300		1 970	22	3 740	2
3		4 210	61	22 200		2 170	21	3 940		1 910	18	2 970	3
4		3 980	60	20 600	3.0	2 090	17 S	3 070		1 880	15	2 440	4
5		3 670	58	18 400		2 030	16	2 810		1 860 A	13 S	2 090	5
6	4.0	3 360	56 S	16 300		1 980	16	2 740	5.0	1 800	14 S	2 180	6
7		3 130	54	14 600		1 900	17	2 790		1 760	15	2 280	7
8		2 950	52	13 300		1 840	18	2 860		1 740	15	2 260	8
9		2 840	49	12 000		1 840	20	3 180		1 710	16	2 360	9
10		2 740	46	10 900		1 750	22	3 330		1 680	16	2 320	10
11		2 630	43	9 770		1 670	24	3 460		1 660	16	2 290	11
12		2 520	41	8 930		1 570	26	3 530		1 650	16	2 280	12
13		2 410	38	7 910		1 520	29	3 810		1 630	16	2 250	13
14		2 310	36	7 190		1 570	31	4 210		1 610	17	2 360	14
15		2 220	33	6 330		1 720	34	5 050		1 580	17	2 320	15
16		2 120	31	5 680	4.5	1 870	36 S	5 820	6.0	1 580	18 S	2 460	16
17		2 020	29	5 060		2 190	39	7 380		1 580	18	2 460	17
18		1 950	29	4 890		2 340	41	8 290		1 590	18	2 470	18
19		1 920	29	4 810		2 350	42	8 530		1 590	19	2 610	19
20		1 910	29	4 790		2 560	43	9 510		1 600	20	2 760	20
21		1 940	29	4 860		2 490	43	9 250		1 610	20	2 780	21
22		2 100	29	5 260		2 430	43	9 030		1 620	22	3 080	22
23		2 380	30	6 170		2 380	43	8 840		1 610	23	3 200	23
24		2 530	30	6 560		2 360	41	8 360		1 580	25	3 410	24
25		2 600	33	7 410		2 340	39	7 880		1 580	26	3 550	25
26		2 620	36	8 150		2 290	37	7 320		1 570 E	27	3 660	26
27		2 640	41	9 350		2 210	34	6 490		1 570 E	28	3 800	27
28	3.5	2 630	45 S	10 200		2 120	30	5 500		1 560	29	3 910	28
29		2 610	44	9 920						1 580	29	3 960	29
30		2 550	41	9 030						1 610	30	4 170	30
31		2 480	38	8 140						1 670	31	4 470	31
TOTAL		84 770		325 010		58 230		159 070		51 980		91 470	TOTAL
MEAN		2 730		10 500		2 080		5 680		1 680		2 950	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	5.5	1 820	32 S	5 030	8.5	3 950	217 S	74 100	12.0	8 300	349 S	250 000	1
2		1 910	34	5 610		4 020	196	68 100	13.0	8 100	309 S	216 000	2
3		1 970	37	6 300		3 980	126	43 300	13.0	8 270	418 S	299 000	3
4		1 960	42	7 110	9.0	4 040	92 S	32 100	12.5	8 550	390 S	288 000	4
5		1 930	47	7 840		4 130	95	33 900	12.0	8 500	443 S	325 000	5
6		1 990	51	8 770		4 130	103	36 800	12.5	8 610	386 S	287 000	6
7	5.0	1 930	54 S	9 000		4 090	109	38 500	12.5	8 380	316 S	229 000	7
8	5.5	1 900	43 S	7 060		4 050	117	40 900	12.5	8 100	286 S	200 000	8
9		1 890 E	33	5 390	11.0	4 090	122 S	43 100	12.7	7 840	229 S	155 000	9
10		1 880 E	31	5 040		4 130	119	42 500	12.0	7 650	222 S	147 000	10
11		1 870 E	29	4 690	10.6	4 130	109 S	38 900	12.5	7 360	199 S	127 000	11
12		1 860	30	4 820	11.5	4 190	135 S	48 900	12.5	6 850	184 S	109 000	12
13		1 820	29	4 560		4 300	172	63 900	12.0	6 480	180 S	101 000	13
14	6.0	1 760	26 S	3 950		4 350	164	61 600	12.5	6 230	156 S	84 000	14
15		1 710	28	4 140	11.0	4 390	134 S	50 800	13.0	6 030	154 S	80 200	15
16		1 710	26	3 840		4 540	141	55 300	13.0	6 000	151 S	78 300	16
17		1 720	29	4 310	11.5	4 620 E	208 S	83 000	12.0	5 970	144 S	74 300	17
18		1 700	31	4 550	12.0	4 740 E	256 S	105 000		5 890	137 S	69 700	18
19		1 720	34	5 050	12.5	4 840 E	359 S	150 000		6 120	117 S	61 900	19
20		1 800	40	6 220	12.5	5 040 E	431 S	188 000		6 370	109 S	60 000	20
21		1 890	47	7 670	12.2	5 320 E	354 S	163 000		6 260	103 S	55 700	21
22		1 950	55	9 270	11.5	5 550	438 S	210 000		6 000	105 S	54 400	22
23		2 200	67	12 700	12.5	5 830	464 S	234 000		5 970	110 S	56 700	23
24		2 680	94	21 800	13.5	6 260	438 S	237 000		5 970	100 S	51 600	24
25	9.0	3 030	149 S	39 000	12.7	6 910	542 S	324 000		5 720	106 S	52 400	25
26		3 230	264	73 700	12.5	7 560	596 S	389 000	14.0	5 580	102 S	49 200	26
27		3 620	412	129 000	12.0	7 700	506 S	337 000	14.0	5 490	99 S	47 000	27
28	8.5	3 980	538 S	185 000		7 820	544 S	368 000		5 440	96	45 100	28
29	7.5	4 060	376 S	132 000		8 100	523 S	366 000	13.5	5 410	89 S	41 600	29
30	8.0	3 900	243 S	81 900	11.8	8 470	561 S	411 000	14.0	5 550	78 S	37 400	30
31					13.0	8 410	547 S	407 000					31
TOTAL		67 390		805 320		163 880		4 744 700		202 990		3 732 500	TOTAL
MEAN		2 250		26 800		5 290		153 000		6 770		124 000	MEAN

FRASER RIVER AT MISSION - STATION NO. 08MH024

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	15.0	5 580	78 S	37 600	17.0	5 170 E	86 S	38 400		3 460	31	9 270	1
2	15.0	5 380	84 S	39 000	17.5	5 210 E	89 S	40 100		3 380	25	7 300	2
3	15.2	5 440	82 S	38 500	17.0	5 220 E	85 S	38 300	19.0	3 270	22 S	6 220	3
4		5 610	86	41 700		5 150 E	69 S	30 700		3 180	20	5 500	4
5		5 720	95	46 900		5 010 E	70	30 300		3 190	19	5 240	5
6	16.5	5 660	91 S	44 500	20.5	4 840 E	83 S	34 700		3 210	19	5 270	6
7	14.5	5 720	102 S	50 400	20.5	4 760 E	77 S	31 700		3 170	18	4 930	7
8	15.0	5 800	117 S	58 600	20.0	4 620 E	98 S	39 100		3 110	18	4 840	8
9	14.2	5 750	107 S	53 200		4 560 E	66 S	26 000		3 010	18	4 680	9
10	14.0	5 580	106 S	51 100		4 530 E	65 S	25 400		2 940	18	4 570	10
11	16.5	5 390 E	114 S	53 100		4 560 E	58 S	22 900		2 890	18	4 490	11
12	16.0	5 210 E	92 S	41 400	21.0	4 600 E	55 S	21 900	18.0	2 870	18 S	4 460	12
13	14.5	5 010 E	82 S	35 500	20.5	4 670 E	52 S	21 000		2 870	18	4 460	13
14	15.0	4 840 E	77 S	32 200	20.5	4 730 E	61 S	24 900		2 860	18	4 450	14
15	15.0	4 800 E	67 S	27 800	19.0	4 760 E	52 S	21 400		2 800	19	4 600	15
16	17.0	4 810 E	69 S	28 700		4 770 E	54	22 300		2 720	20	4 700	16
17	17.0	4 870 E	83 S	34 900	19.0	4 710 E	58 S	23 600	16.5	2 630	23 S	5 230	17
18		5 040 E	76 S	33 100	20.0	4 640 E	54 S	21 600	16.5	2 540	25 S	5 490	18
19		5 100 E	75	33 000	19.5	4 570 E	50 S	19 700		2 490	24	5 160	19
20		5 130 E	95 S	42 100	18.0	4 520	54 S	21 100		2 470	24	5 120	20
21		5 150 E	129 S	57 400	18.0	4 420	56 S	21 400		2 540 A	25	5 490	21
22		5 210 E	106 S	47 700	18.0	4 300	51 S	18 900	14.0	2 590 A	25 S	5 590	22
23		5 300 E	98 S	44 900		4 200	50	18 100		2 640 A	25	5 700	23
24		5 380 E	107 S	49 700	18.5	4 130	47 S	16 800	14.0	2 610 A	22 S	4 960	24
25		5 410 E	106 S	49 500	18.0	4 040	44 S	15 400		2 530 A	20	4 370	25
26		5 420 E	96	45 000	19.0	3 890	24 S	8 070		2 370 A	19	3 890	26
27		5 380 E	84 S	39 000	18.0	3 760	24 S	7 800		2 240 A	19	3 680	27
28		5 350 E	85 S	39 300	18.0	3 660	39 S	12 300		2 220 A	19	3 640	28
29		5 300 E	90 S	41 200	17.0	3 600	37 S	11 500		2 250 A	21	4 080	29
30		5 210 E	70 S	31 500	18.0	3 560	36 S	11 100	13.0	2 140 A	22 S	4 070	30
31		5 180 E	76 S	34 000	16.0	3 500	39 S	11 800					31
TOTAL		164 730		1 302 500		138 660		708 270		83 190		151 450	TOTAL
MEAN		5 310		42 000		4 470		22 800		2 770		5 050	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2 070 A	28	5 010		3 210	22	6 100		2 050	10	1 770	1
2	11.5	2 290 A	41 S	8 110	10.0	3 510	36 S	10 900		2 060	10	1 780	2
3		2 310 A	45	8 980		3 420	37	10 900		2 030	10	1 750	3
4		2 220 A	30	5 750		3 500	31	9 370	4.0	1 940	10 S	1 680	4
5		2 180 A	21	3 960		3 660	28	8 850		1 990	10	1 720	5
6	11.0	2 240 A	19 S	3 680	10.0	3 680	25 S	7 950		2 190	10	1 890	6
7	11.0	2 520 A	36 S	7 840		3 630	22	6 900		2 100	10	1 810	7
8		2 650 A	27	6 180		3 550	21	6 440		2 040	10	1 760	8
9	11.5	2 590 A	10 S	2 240		3 370	20	5 820		1 950	10	1 680	9
10	12.0	2 530 A	19 S	4 150		3 150	20	5 440		2 090	10	1 810	10
11		2 480 A	24	5 140		3 040	22	5 780		2 160	10	1 870	11
12		2 410 A	21	4 370	8.0	3 420	26 S	7 680		2 050	10	1 770	12
13		2 330 A	18	3 620		3 550	28	8 590		1 900	9	1 480	13
14		2 270 A	16	3 140		3 470 A	31	9 290	3.5	1 820	8 S	1 260	14
15		2 200 A	14	2 660		3 380	32	9 350	3.5	1 760	8 S	1 220	15
16		2 160	13	2 430		3 450	33	9 840		1 710	9	1 330	16
17		2 100	12	2 180	7.5	3 390	34 S	9 960		1 640	10	1 420	17
18		2 050	12	2 130		3 250	33	9 270		1 570	10	1 360	18
19	10.5	1 990	11 S	1 890		3 110	31	8 330		1 570	10	1 360	19
20		1 970	11	1 870		3 000	28	7 260		1 730	10	1 490	20
21		1 960	10	1 690		2 900	24	6 010	3.5	1 740	10 S	1 500	21
22	10.0	1 930	10 S	1 670		2 900	20	5 010		1 710	11	1 630	22
23		1 900	10	1 640		2 810	16	3 880		1 650	12	1 710	23
24		1 850	9	1 440	7.4	2 700	12 S	2 800		1 560	13	1 750	24
25		1 790	9	1 390		2 590	11	2 460		1 540	15	2 000	25
26		1 750	8	1 210	6.0	2 490	10 S	2 150		1 540	17	2 260	26
27	10.0	1 760	8 S	1 220	5.0	2 400	10 S	2 070		1 580	18	2 460	27
28		1 960	8	1 350		2 280	10	1 970	2.5	1 560	18 S	2 430	28
29		2 160	9	1 680		2 190	10	1 890		1 500	13	1 680	29
30	8.7	2 170	10 S	1 870		2 100	10	1 810	2.0	1 460	7 S	883	30
31		2 390	13	2 680						1 330	8	919	31
TOTAL		67 180		103 170		93 100		194 070		55 520		51 432	TOTAL
MEAN		2 170		3 330		3 100		6 470		1 790		1 660	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 12 368 962 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	116		MEAN	33 900	
MAXIMUM DAILY	596	ON MAY 26	MAXIMUM DAILY	411 000	ON MAY 30
MINIMUM DAILY	7	ON DEC 30	MINIMUM DAILY	883	ON DEC 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 39 N
LONG 122 18 08 W
DRAINAGE AREA 228 000 km²
REGULATED FLOW SINCE 1952

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 25	15:40	3 030 H	9.0	210 K	12	17	27	48	68	85	95	99	100			BNW
APR 29	09:52	4 060 H	7.5	540 K	15	24	37	54	70	83	95	100				BNW
APR 30	10:22	3 900 H	8.0	325 K	16	24	35	53	67	77	90	97	99	100		BNW
APR 30	10:30	3 900 H	8.0	335 K	10	19	33	48	61	72	83	97	100			BNW
MAY 01	13:22	4 050	8.5	214 R	12	19	37	58	71	83	94	98	99	100		BNW
MAY 01	14:00	4 050	8.5	294 K	21	23	42	59	71	81	93	99	100			BNW
MAY 17	15:00	4 620	11.5	299 K	7	10	15	24	35	48	72	91	99	100		BNW
MAY 18	13:40	4 740	12.0	338 K	9	11	20	30	42	57	80	94	99	100		BNW
MAY 19	16:00	4 840	12.5	504 K	6	8	14	24	37	56	74	89	98	100		BNW
MAY 20	20:00	5 040	12.5	557 K	1	4	13	21	32	49	71	89	98	100		BNW
MAY 22	18:20	5 550 H	12.5	727 K	5	8	13	21	32	46	63	82	96	100		BNW
MAY 23	17:25	5 830 H	13.5	602 K	7	9	18	27	38	52	68	83	95	100		BNW
MAY 24	13:45	6 260 H	13.5	556 K	4	7	15	24	36	53	75	92	99	100		BNW
MAY 25	13:32	7 500	12.7	555 R	6	10	19	33	49	69	89	98	100			BNW
MAY 25	16:02	7 500	12.7	604 R	7	10	18	31	47	66	86	95	99	100		BNW
MAY 26	07:45	7 560 H	12.5	758 K	4	8	13	23	37	55	74	89	98	100		BNW
MAY 27	19:30	7 700 H	12.5	624 K	4	8	14	24	35	49	68	83	93	100		BNW
MAY 28	17:00	7 820 H		718 K	5	8	14	23	33	47	56	84	96	100		BNW
MAY 29	07:00	8 100 H		664 K	8	11	18	27	39	54	70	84	95	100		BNW
MAY 30	10:30	8 620	12.5	726 K	6	10	16	25	36	52	70	87	97	100		BNW
MAY 30	10:38	8 620	11.8	600 R	6	11	17	28	41	60	76	89	96	100		BNW
MAY 30	11:21	8 620	11.8	744 K	6	9	15	23	34	48	64	78	91	100		BNW
MAY 30	16:45	8 470 H	13.0	646 K	3	5	10	21	35	48	66	89	98	100		BNW
MAY 31	18:30	8 610 H		564 K	5	9	16	24	33	46	64	77	93	100		BNW
JUN 01	17:00	8 300 H	14.0	414 K	1	7	14	24	34	46	62	77	92	100		BNW
JUN 02	17:00	8 100 H	14.0	534 K	3	7	13	20	25	32	47	79	97	100		BNW
JUN 03	08:00	8 270 H	13.0	586 K	3	7	13	21	28	36	45	58	85	100		BNW
JUN 04	16:15	8 550 H	13.5	435 K	8	11	17	26	36	49	64	80	93	100		BNW
JUN 06	15:00	8 610 H	12.5	431 K	6	9	15	22	28	36	51	90	100			BNW
JUN 07	12:30	8 380 H	12.5	372 K	6	9	15	23	29	36	45	87	100			BNW
JUN 09	10:00	7 840 H	12.5	269 K	3	7	14	23	30	41	58	88	100			BNW
JUN 09	14:31	7 840 H	12.7	282 K	5	8	17	23	30	40	55	73	90	100		BNW
JUN 10	09:00	7 650 H	12.0	278 K	1	3	8	15	22	32	46	65	91	100		BNW
JUN 11	16:00	7 360 H	13.5	238 K	4	8	16	23	30	40	56	77	94	100		BNW
JUN 12	10:41	6 850 H		315 K	12	14	21	27	32	39	50	76	96	100		BNW
JUN 12	11:15	6 850 H		205 K	11	13	20	28	37	48	67	86	97	100		BNW
JUN 13	19:30	6 840 H	12.5	221 K	4	8	14	23	31	41	60	82	96	100		BNW
JUN 14	13:30	6 230 H	12.5	187 K	6	9	19	27	36	47	69	87	97	100		BNW
JUN 15	09:00	6 030 H	13.0	198 K	7	11	18	25	32	42	57	75	91	100		BNW
JUN 16	20:30	6 000 H	13.5	180 K	7	8	18	26	34	44	67	86	97	100		BNW
JUN 17	07:00	5 970 H	12.5	168 K	4	8	16	23	31	42	60	77	91	100		BNW
JUN 21	17:00	6 260 H		134 K	7	11	19	28	36	47	65	83	96	100		BNW
JUN 23	09:00	5 970 H		148 K	7	9	15	24	30	38	57	76	91	100		BNW
JUN 26	08:10	5 580 H		131 K	6	8	14	21	28	38	55	74	89	100		BNW
JUN 26	10:00	5 580 H	14.0	132 K	5	6	19	28	32	42	62	85	98	100		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

FRASER RIVER AT MISSION - STATION NO. 08MH024

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	METHOD OF ANALYSIS
MAY 30	12:31	8 620	11.8	91.4	0.30	342	15	22	36	55	74	89	98	100				BNW
					2.71	427	9	15	25	40	59	80	97	100				BNW
					5.43	498	9	14	23	38	54	73	93	100				BNW
					8.11	708	4	9	18	27	37	51	82	98	100			BNW
					10.82	958	4	6	10	16	25	37	65	86	98	100		BNW
					12.19	1 180	3	4	9	15	22	32	57	85	98	100		BNW
					13.38	2 590	1	2	5	7	10	15	30	74	97	100		BNW
					13.53		STREAMBED											
				182.9	0.30	400	11	18	28	42	59	78	94	99	100			BNW
					2.59	577	8	11	21	32	44	59	81	96	100			BNW
					5.18	610	8	13	21	31	43	56	78	93	99	100		BNW
					7.77	833	9	10	16	24	34	49	70	89	98	100		BNW
					10.36	958	7	10	14	22	31	44	66	82	95	100		BNW
					11.67	1 030	1	3	9	15	22	32	51	73	92	100		BNW
					12.80	2 740	1	2	4	7	9	13	22	64	95	100		BNW
					12.95		STREAMBED											
				274.3	0.30	455	13	17	26	41	59	80	94	99	100			BNW
					2.53	527	7	11	20	33	47	64	85	97	100			BNW
					5.06	656	4	9	15	24	36	51	71	85	96	100		BNW
					7.62	670	5	9	17	25	36	52	73	90	98	100		BNW
					10.15	784	7	8	13	21	31	45	64	82	95	100		BNW
					11.40	2 820	1	2	4	7	9	13	20	43	87	100		BNW
					12.53	2 430	1	2	5	7	10	14	22	53	92	100		BNW
					12.68		STREAMBED											
				365.8	0.30	373	10	13	31	50	68	85	98	100				BNW
					2.50	425	7	11	21	37	55	74	95	100				BNW
					4.97	515	6	10	19	32	47	65	86	98	100			BNW
					7.47	545	5	8	19	31	45	63	88	98	100			BNW
					9.94	633	5	7	16	25	38	53	75	91	98	100		BNW
					11.19	801	5	9	14	22	33	46	63	78	94	100		BNW
					12.28	1 560	3	5	8	13	18	24	35	54	90	100		BNW
					12.44		STREAMBED											
				457.2	0.30	321	14	18	34	52	71	91	100					BNW
					2.56	355	12	19	31	49	68	85	98	100				BNW
					5.09	367	8	14	26	45	67	87	97	100				BNW
					7.65	392	6	13	26	42	60	77	97	100				BNW
					10.18	421	7	10	21	35	50	70	95	100				BNW
					11.46	496	7	12	21	34	49	67	92	100				BNW
					12.59	688	6	7	16	25	35	48	70	91	100			BNW
					12.74		STREAMBED											

FRASER RIVER AT MISSION - STATION NO. 08MH024

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	METHOD OF ANALYSIS	TYPE OF SAMPLER
MAY 25	17:30	7 500	5			1	5	47	94	100							S	ARNHEM
MAY 30	14:12	8 620	5				3	34	95	98		99	99	100			S	ARNHEM
JUN 17	13:28	5 970	5				3	29	95	100							S	ARNHEM

BRITISH COLUMBIA

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2 670	174	40 100		1 700	27	3 970		1 490	16	2 060	1
2	2.0	2 650	148 S	33 900		1 640	24	3 400		1 450	15	1 880	2
3		2 590	124	27 700		1 600	21	2 900		1 420	16	1 960	3
4		2 450	101	21 400	1.0	1 540	18 S	2 400		1 400	16	1 940	4
5		2 290	79	15 600		1 520	17	2 230		1 390	16	1 920	5
6	2.0	2 150	57 S	10 600		1 480	16	2 050	3.5	1 370	16 S	1 890	6
7		2 010	37	6 430		1 440	15	1 870		1 350	15	1 750	7
8		1 960	25 S	4 230		1 400	14	1 690		1 340	15	1 740	8
9		1 910	25	4 130		1 390	14	1 680		1 320	15	1 710	9
10		1 860	25	4 020	1.0	1 330	13 S	1 490		1 310	15	1 700	10
11		1 820	25	3 930		1 260	13	1 420		1 290	15	1 670	11
12		1 770	25	3 820		1 200	13	1 350		1 280	15	1 660	12
13		1 720	25	3 720		1 210	15	1 570		1 280	15	1 660	13
14		1 680	25	3 630		1 310	30	3 400		1 280	15	1 660	14
15		1 640	24 S	3 400		1 430	37	4 570		1 280	15	1 660	15
16		1 580	24	3 280		1 550	46	6 160		1 290	15	1 670	16
17		1 540	24	3 190		1 800	54	8 400		1 290	15	1 670	17
18		1 480	24	3 070		1 680	33	4 790		1 320	15	1 710	18
19		1 470	23	2 920	4.0	1 790	41 S	6 340		1 340	15	1 740	19
20		1 460	24	3 030		1 780	37	5 690		1 360	15	1 760	20
21		1 500	23	2 980		1 700	28	4 110		1 370	15	1 780	21
22	2.5	1 610	26 S	3 620		1 680	24	3 480		1 370	15	1 780	22
23		1 740	47	7 070		1 660	19	2 730		1 360	15	1 760	23
24		1 760	39	5 930		1 670	19	2 740		1 350	16	1 870	24
25		1 790	38	5 880		1 660	20	2 870		1 340	16	1 850	25
26		1 810	38	5 940		1 620	19	2 660		1 320	16	1 820	26
27		1 820	38	5 980		1 570	19	2 580		1 310	17	1 920	27
28		1 830	38	6 010		1 520	17	2 230		1 310	23	2 600	28
29	2.0	1 830	35 S	5 530						1 340	33	3 820	29
30		1 800	31	4 820						1 390	45	5 400	30
31		1 760	29	4 410						1 480	64	8 180	31
TOTAL		57 950		260 270		43 130		90 770		41 790		68 190	TOTAL
MEAN		1 870		8 400		1 540		3 240		1 350		2 200	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1 590	88	12 100		3 150	453	123 000	13.0	7 630	357 S	235 000	1
2	5.0	1 670	106 S	15 300		3 120	387	104 000	13.0	7 720	372 S	248 000	2
3		1 680	100	14 500		3 060	319	84 300	13.0	8 060	370 S	258 000	3
4		1 660	89	12 800		3 170	274	75 000		8 240	359 S	256 000	4
5		1 680	81	11 800		3 220	241	67 000	13.0	7 870	315 S	214 000	5
6		1 650	73	10 400		3 220	209	58 100		7 850	261 S	177 000	6
7		1 610	67	9 320	8.5	3 160	179 S	48 900	12.0	7 570	239 S	156 000	7
8		1 580	62	8 460		3 150	175	47 600	12.0	7 330	223 S	141 000	8
9	3.0	1 570	56 S	7 600		3 240	173	48 400		7 060	207 S	126 000	9
10		1 540	56	7 450		3 230	179	50 000	11.0	6 770	200 S	117 000	10
11		1 520	56	7 350		3 260	185	52 100	13.2	6 390	199 S	110 000	11
12		1 490	57	7 340		3 350	190	55 000	11.0	5 940	197 S	101 000	12
13		1 470	57	7 240		3 510	189	57 300	11.0	5 740	189 S	93 700	13
14		1 440	57	7 090		3 470	209	62 700	11.0	5 560	180 S	86 500	14
15		1 410	57	6 940		3 570	227	70 000	12.0	5 480	165 S	78 100	15
16	5.0	1 450	57 S	7 140		3 660	254	80 300	12.2	5 460	142 S	67 000	16
17		1 440	55	6 840		3 820	284	93 700	11.0	5 400	138 S	64 400	17
18		1 420	56	6 870		4 100	313	111 000	11.0	5 330	137 S	63 100	18
19		1 460	58	7 320		4 480	349	135 000		5 550	138 S	66 200	19
20		1 550	91	12 200		4 820	409	170 000	12.0	5 580	132 S	63 600	20
21		1 600	155	21 400	11.0	5 170	467 S	209 000	12.0	5 420	128 S	59 900	21
22		1 690	207	30 200	11.0	5 500	524 S	249 000		5 250	123 S	55 800	22
23		1 920	273	45 300		5 830	556	280 000	12.0	5 340	118 S	54 400	23
24		2 340	396	80 100	10.0	6 360	586 S	322 000	12.0	5 250	108 S	49 000	24
25		2 380	543	112 000		7 220	610	381 000	12.0	5 160	101 S	45 000	25
26		2 560	697	154 000	10.0	7 650	615 S	406 000	12.3	5 130	98 S	43 400	26
27		3 020	805	210 000	12.3	7 660	559 S	370 000	13.0	5 110	91 S	40 200	27
28	7.0	3 260	702 S	198 000	11.0	7 960	473 S	325 000	13.0	5 010	86 S	37 200	28
29		3 200	604	167 000		8 470	414	303 000		4 980	83 S	35 700	29
30		3 030	528	138 000	11.0	8 750	376 S	284 000	13.0	5 010	77 S	33 300	30
31						8 380	357	258 000					31
TOTAL		55 880		1 342 060		148 710		4 980 400		184 190		3 175 500	TOTAL
MEAN		1 860		44 700		4 800		161 000		6 140		106 000	MEAN

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4 910	72	30 500		4 390	74	28 100	16.0	2 660	48 S	11 000	1
2	13.5	4 790	74 S	30 600		4 400	73	27 800		2 580	47	10 500	2
3	13.5	4 920	81 S	34 400		4 330	74	27 700	15.5	2 470	46 S	9 820	3
4	14.5	5 030	81 S	35 200	17.5	4 210	74 S	26 900		2 440	44	9 280	4
5		5 060	82	35 800	17.0	4 070	69 S	24 300		2 480	44	9 430	5
6	14.0	5 050	81 S	35 300	18.0	3 930	64 S	21 700		2 500	42	9 070	6
7	13.0	5 200	91 S	40 900	18.0	3 780	61 S	19 900		2 470	40	8 540	7
8	13.0	5 300	108 S	49 500	18.0	3 650	60 S	18 900	17.0	2 410	39 S	8 120	8
9	13.0	5 170	102 S	45 600		3 550	59	18 100		2 310	38	7 580	9
10	13.0	5 080	98 S	43 000	18.5	3 510	59 S	17 900		2 260	35	6 830	10
11	13.0	4 890	95 S	40 100	19.0	3 550	59 S	18 100	16.5	2 220	34 S	6 520	11
12		4 570	80	31 600		3 590	60 S	18 600		2 220	35	6 710	12
13	14.0	4 330	72 S	26 900	20.5	3 620	63 S	19 700		2 230	35	6 740	13
14	14.0	4 220	68 S	24 800		3 680	68	21 600		2 230	35	6 740	14
15	15.0	4 160	65 S	23 400	19.0	3 700	71 S	22 700	16.5	2 200	34 S	6 460	15
16	15.0	4 170	64 S	23 100		3 690	71	22 600		2 110	34	6 200	16
17	15.0	4 250	64 S	23 500	19.0	3 630	69 S	21 600		2 030	34	5 960	17
18	15.0	4 320	66 S	24 600	19.0	3 500	66 S	20 000		1 960	34	5 760	18
19		4 390	74	28 100	19.0	3 370	62 S	18 100		1 910	35	5 780	19
20	16.0	4 450	83 S	31 900	19.4	3 300	60 S	17 100		1 920	36	5 970	20
21		4 490	91	35 300	18.0	3 220	60 S	16 700		1 980	38	6 500	21
22	17.0	4 570	97 S	38 300	18.0	3 150	55 S	15 000	13.5	2 030	39 S	6 840	22
23	17.0	4 670	101 S	40 800		3 110	51	13 700		2 060	37	6 590	23
24	17.0	4 740	104 S	42 600	18.0	3 070	51 S	13 500		2 030	34	5 960	24
25	17.5	4 790	104 S	43 000	18.0	2 990	56 S	14 500	13.0	1 950	30 S	5 050	25
26		4 700	95	38 600	17.0	2 870	54 S	13 400		1 850	29	4 640	26
27	18.0	4 640	84 S	33 700	18.5	2 820	51 S	12 400		1 770	28	4 280	27
28	17.5	4 560	80 S	31 500	17.0	2 750	52 S	12 400		1 780	28	4 310	28
29		4 480	74 S	28 600	16.5	2 750	51 S	12 100	12.0	1 720	31 S	4 610	29
30	16.5	4 390	71 S	26 900		2 740	50	11 800		1 650	36	5 130	30
31	17.0	4 390	73 S	27 700	16.5	2 730	49 S	11 600					31
TOTAL		144 680		1 045 800		107 650		578 500		64 430		206 920	TOTAL
MEAN		4 670		33 700		3 470		18 700		2 150		6 900	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1 670	48	6 930		2 150	49	9 100		1 490	10	1 290	1
2	11.2	1 810	45 S	7 040		1 990	31	5 330		1 520	9	1 180	2
3		1 670	31	4 470	9.0	1 870	28 S	4 520		1 440	9	1 120	3
4		1 620	29	4 060		2 040	42	7 400	4.0	1 400	9 S	1 090	4
5		1 650	28	3 990		2 200	77	14 600		1 530	8	1 060	5
6	10.5	1 740	30 S	4 510	6.5	2 270	93 S	18 200		1 540	8	1 060	6
7		1 870	40	6 460		2 300	88	17 500		1 430	8	988	7
8		1 810	24	3 750		2 300	77	15 300		1 390	8	961	8
9	10.0	1 770	20 S	3 060		2 190	62	11 700		1 360	7	823	9
10		1 730	17	2 540	7.0	2 090	51 S	9 210		1 450	7	877	10
11		1 700	14	2 060		2 070	49	8 760		1 410	7	853	11
12		1 680	11	1 600		2 380	57	11 700		1 320	7	798	12
13	10.0	1 650	11 S	1 570	7.0	2 220	39 S	7 480		1 220	7	738	13
14		1 630	14	1 970		2 080	35	6 290	3.0	1 200	7 S	726	14
15	10.5	1 610	14 S	1 950		2 110	30	5 470		1 180	7	714	15
16	9.5	1 580	13 S	1 770		2 130	26	4 780		1 150	7	696	16
17		1 550	11	1 470	6.5	2 070	23 S	4 110		1 120	7	677	17
18		1 510	10	1 300		2 010	22	3 820		1 100	7	665	18
19		1 500	10	1 300		1 960	21	3 560		1 130	7	683	19
20	9.0	1 490	10 S	1 290	6.5	1 920	19 S	3 150		1 200	8	829	20
21		1 500	10	1 300		1 900	16	2 630	3.0	1 200	8 S	829	21
22	9.0	1 520	9 S	1 180		1 870	14	2 260		1 190	8	823	22
23	8.0	1 490	9 S	1 160		1 810	13	2 030		1 140	7	689	23
24		1 450	9	1 130	6.0	1 740	13 S	1 950		1 090	7	659	24
25		1 420	9	1 100		1 690	13	1 900		1 100	7	665	25
26		1 440	9	1 120	4.5	1 660	13 S	1 860		1 150	7	696	26
27	9.0	1 440	9 S	1 120	4.0	1 610	11 S	1 530		1 160	6	601	27
28		1 550	9	1 210		1 560	10	1 350		1 150	6	596	28
29		1 580	9	1 230		1 530	10	1 320		1 120	6	581	29
30	8.0	1 560	10 S	1 350		1 480	10	1 280	1.0	1 090	6 S	565	30
31		1 770	45	6 880						989	6	513	31
TOTAL		49 960		81 870		59 200		190 090		38 959		25 045	TOTAL
MEAN		1 610		2 640		1 970		6 340		1 260		808	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 12 045 415 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	140	
MAXIMUM DAILY	805	ON APR 27
MINIMUM DAILY	6	ON DEC 27

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	33 000	
MAXIMUM DAILY	406 000	ON MAY 26
MINIMUM DAILY	513	ON DEC 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 16 N
LONG 121 46 35 W
DRAINAGE AREA 218 000 km^2
REGULATED FLOW SINCE 1952

S - SAMPLE(S) COLLECTED THIS DAY

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 28	15:30	3 260 H	7.0	712 K	15	22	31	50	66	79	89	96	99	100		BNW
MAY 22	07:00	5 500 H	10.0	516 K	11	11	22	34	44	58	75	91	98	100		BNW
MAY 22	12:37	5 500 H	11.0	557 K	8	11	20	31	44	59	75	89	97	100		BNW
MAY 24	07:00	6 360 H	10.0	599 K	5	6	14	25	39	56	73	87	95	100		BNW
MAY 26	07:00	7 650 H	10.0	647 K	8	10	17	28	40	54	73	88	97	100		BNW
MAY 27	12:54	7 530	12.3	562 R	7	11	20	33	46	61	79	93	98	100		BNW
MAY 27	13:54	7 530	12.3	586 K	8	11	19	29	41	57	76	90	98	100		BNW
MAY 28	07:00	7 960 H	11.0	505 K	3	9	17	28	40	55	71	86	97	100		BNW
MAY 30	07:00	8 750 H	11.0	398 K	2	10	22	36	50	65	78	88	95	100		BNW
JUN 01	16:47	7 630 H	13.0	378 K	2	6	16	28	41	54	70	85	96	100		BNW
JUN 02	16:10	7 720 H	13.0	394 K	7	11	20	31	42	55	69	84	95	100		BNW
JUN 03	16:00	8 060 H	13.0	369 K	9	10	19	34	49	65	80	92	98	100		BNW
JUN 04	16:00	8 240 H		378 K	8	13	22	34	46	60	76	89	97	100		BNW
JUN 06	16:10	7 850 H		249 K	16	18	31	41	52	64	77	89	97	100		BNW
JUN 11	10:44	6 390 H	13.2	229 K	18	22	30	40	49	59	70	81	98	100		BNW
JUN 15	15:00	5 480 H	13.0	172 K	8	12	24	34	42	51	71	89	98	100		BNW
JUN 16	07:10	5 450	13.5	165 K	6	11	23	30	38	50	76	93	99	100		BNW
JUN 16	12:38	5 450	13.5	141 R	16	19	29	42	52	64	78	90	96	100		BNW
JUN 16	13:10	5 450	13.5	191 K	16	20	26	36	43	52	63	83	97	100		BNW
JUN 16	13:16	5 450		178 K	15	16	26	38	47	54	68	89	98	100		BNW
JUN 16	15:10	5 450		153 K	3	12	22	33	42	54	71	89	98	100		BNW
JUN 16	15:20	5 450		147 K	16	21	30	42	48	58	80	97	100			BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 27	15:27	7 530	12.3	91.4	0.30	601	5	9	17	28	39	54	83	100				BNW
					1.37	617	7	10	19	29	40	54	80	97	100			BNW
					2.71	647	6	11	18	28	39	55	86	98	100			BNW
					4.08	712	8	11	17	27	37	53	80	97	100			BNW
					5.43	749	9	12	17	26	37	50	78	97	100			BNW
					6.19	812	7	9	15	23	32	47	78	97	100			BNW
					6.52	834	7	10	17	23	31	43	69	91	99	100		BNW
					6.68		STREAMBED											
				182.9	0.30	439	7	11	21	36	53	71	89	98	100			BNW
					1.28	525	6	10	20	31	44	61	85	98	100			BNW
					2.56	577	7	12	20	30	43	58	81	97	100			BNW
					3.87	577	5	9	19	30	44	59	83	97	100			BNW
					5.15	647	7	11	19	29	40	56	79	95	100			BNW
					5.79	740	5	8	14	23	34	47	67	87	98	100		BNW
					6.28	779	3	6	13	23	31	43	65	84	96	100		BNW
					6.43		STREAMBED											
				274.3	0.30	526	9	13	21	33	48	64	85	98	100			BNW
					1.49	597	5	9	19	29	40	56	77	93	99	100		BNW
					2.99	720	6	9	16	24	33	44	65	83	95	100		BNW
					3.99	718	5	6	14	23	33	47	65	83	96	100		BNW
					4.39	904	4	7	13	21	28	38	50	78	97	100		BNW
					4.85	1 140	4	5	9	15	21	28	42	77	98	100		BNW
					5.00		STREAMBED											
				365.8	0.30	600	8	11	19	30	41	56	74	88	96	100		BNW
					1.19	778	5	8	14	23	32	44	61	81	95	100		BNW
					2.41	954	5	8	14	22	28	37	49	75	96	100		BNW
					3.17	1 550	4	6	8	11	16	22	31	53	90	100		BNW
					3.69	1 700	3	4	8	12	16	20	26	63	95	100		BNW
					3.99		STREAMBED											
				457.2	0.30	374	12	15	31	51	69	85	98	100				BNW
					1.52	392	7	14	27	44	62	83	99	100				BNW
					3.05	406	5	10	23	39	57	76	95	100				BNW
					4.57	403	8	9	24	40	57	77	97	100				BNW
					6.10	417	9	12	23	40	58	76	94	99	100			BNW
					6.86	445	6	9	22	36	52	70	89	98	100			BNW
					7.47	480	5	8	18	32	47	64	81	93	99	100		BNW
					7.62		STREAMBED											

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES													METHOD OF ANALYSIS	TYPE OF SAMPLER
				0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000		
MAY 27	17:31	7 530	6				1	8	33	39	40	41	45	56	74	97	S	VUV
JUN 16	13:59	5 450	6				1	9	35	48	50	51	55	68	90	100	S	VUV

BRITISH COLUMBIA

FRASER RIVER NEAR MARGUERITE - STATION NO. 08NC018

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1 130 E	50	4 880		821 E	22	1 560		685	25	1 480	1
2		1 100 E	38	3 610		793 E	17	1 160		651	26	1 460	2
3		1 100 E	30	2 850		765 E	14	925		634	31	1 700	3
4		1 050 E	26 S	2 360		736 E	11 S	699		634	38	2 080	4
5		1 020 E	23	2 030		708 E	9	551		617	44 S	2 350	5
6		1 010	22	1 920		680 E	9	529		600	51	2 640	6
7		991 E	22	1 880		651 E	9	506		600	57	2 950	7
8		963 E	22	1 830		623 E	9	484		583	62	3 120	8
9		934 E	21	1 690		623 E	11 S	592		583	65	3 270	9
10		906 E	21	1 640		595 E	14	720		566	67	3 280	10
11		878 E	21	1 590		595 E	17	874		561	70 S	3 390	11
12		850 E	20	1 470		595 E	20	1 030		555	77	3 690	12
13		821 E	19	1 350		595 E	24	1 230		555	92	4 410	13
14		793 E	18	1 230		595 E	29	1 490		555	152	7 290	14
15		765 E	18	1 190		623 E	34 S	1 830		566	289	14 100	15
16		765 E	17	1 120		623 E	45	2 420		600	379	19 600	16
17		765 E	17	1 120		651 E	61	3 430		639	394 S	21 800	17
18		765 E	17	1 120		651 E	77	4 330		651	325	18 300	18
19		765 E	19	1 260		680 E	90	5 290		668	238	13 700	19
20		793 E	23	1 580		680 E	102	5 990		668	177	10 200	20
21		821 E	27	1 920		708 E	108	6 610		668	135	7 790	21
22		850 E	29	2 130		736 E	110 S	6 990		634	101	5 530	22
23		898	31	2 410		765 E	103	6 810		634	73	4 000	23
24		906 E	32	2 500		793 E	90	6 170		617	63 S	3 360	24
25		934 E	34	2 740		799	76	5 250		600	71	3 680	25
26		934 E	34	2 740		770	58	3 860		583	100	5 040	26
27		934 E	35	2 820		753	39 S	2 540		600	168	8 710	27
28		906 E	35	2 740		719	29	1 800		626	267	14 400	28
29		878 E	34	2 580						685	386	22 800	29
30		872	31 S	2 340						787	505	34 300	30
31		850 E	26	1 910						934	452	36 500	31
TOTAL		27 947		64 550		19 326		75 670		19 539		286 920	TOTAL
MEAN		902		2 080		690		2 700		630		9 260	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		966	287	24 000	7.5	1 640	175 S	24 800	11.5	3 940	577 S	196 000	1
2		946	207 S	16 900	7.5	1 710	204 S	30 100	11.5	4 210	611 S	222 000	2
3		926	205 S	16 400	7.5	1 930	291 S	48 500	11.5	4 180	449 S	162 000	3
4		889	163 S	12 500	8.0	2 000	302 S	52 200		3 980	459	158 000	4
5		855	128	9 460		1 980	288	49 300		3 870	556	186 000	5
6		830	109	7 820		1 910	201	33 200	11.5	3 840	515 S	171 000	6
7		818	103 S	7 280	9.0	1 930	207 S	34 500	11.3	3 700	266 S	85 000	7
8	3.5	796	110 S	7 570	9.0	1 980	202 S	34 600	11.3	3 500	269 S	81 300	8
9	3.5	775	118 S	7 900	9.3	1 950	169 S	28 500	11.5	3 330	229 S	65 900	9
10	3.5	753	115 S	7 480		1 980	177 S	30 300		3 090	183	48 900	10
11		736	106	6 740		2 070	221	39 500		2 890	162	40 500	11
12		736	98	6 230		2 070	201	35 900	12.0	2 790	152 S	36 600	12
13		685	91	5 390	10.0	1 980	152 S	26 000	12.0	2 720	142 S	33 400	13
14		668	83	4 790	10.5	1 950	131 S	22 100	12.5	2 750	155 S	36 800	14
15	3.5	651	77 S	4 330	10.5	2 010	153 S	26 600	12.5	2 690	132 S	30 700	15
16	4.0	634	78 S	4 270	11.0	2 160	223 S	41 600		2 620	136	30 800	16
17		651	93	5 230		2 340	315	63 700		2 620	157	35 500	17
18		685	120	7 100		2 500	356	76 900	13.0	2 740	137 S	32 400	18
19	6.0	770	144 S	9 580	11.0	2 560	362 S	80 100	13.0	2 720	129 S	30 300	19
20	6.5	821	141 S	10 000	11.0	2 620	366 S	82 900	13.0	2 620	111 S	25 100	20
21	7.0	889	173 S	13 300	11.0	2 790	421 S	101 000	13.0	2 590	113 S	25 300	21
22	7.0	985	281 S	23 900	11.5	2 960	524 S	134 000		2 620	120	27 200	22
23		1 130	486	47 400		3 260	678	191 000		2 660	121	27 800	23
24		1 140	739	72 800		3 570	864	266 000	13.0	2 590	110 S	24 600	24
25	6.0	1 710	1 030 S	152 000	11.5	3 670	837 S	265 000	13.5	2 560	92 S	20 300	25
26	5.0	2 240	1 030 S	199 000	11.0	3 770	744 S	242 000	14.0	2 530	91 S	19 900	26
27	5.0	2 190	576 S	109 000	11.0	4 030	836 S	291 000	14.0	2 470	80 S	17 100	27
28	5.0	1 860	399 S	64 100	11.0	4 330	1 000 S	374 000		2 440	76	16 000	28
29		1 680	261	37 900		4 320	821 S	306 000		2 380	79	16 200	29
30		1 630	166	23 400		4 040	1 100	384 000	14.5	2 340	74 S	15 000	30
31					11.5	3 770	949 S	309 000					31
TOTAL		31 045		923 770		81 780		3 724 300		89 980		1 917 600	TOTAL
MEAN		1 030		30 800		2 640		120 000		3 000		63 900	MEAN

FRASER RIVER NEAR MARGUERITE - STATION NO. 08NC018

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	14.5	2 410	66 S	13 700	17.5	2 220	86 S	16 500		1 160	65	6 510	1
2	14.5	2 390	76 S	15 700		2 160	79	14 700		1 090	58	5 460	2
3	15.0	2 450	78 S	16 500		2 040	77	13 600		1 090	52	4 900	3
4		2 440	75	15 800		1 980	75	12 800	15.5	1 170	48 S	4 850	4
5		2 440	95	20 000	18.0	1 870	58 S	9 370	15.0	1 170	43 S	4 350	5
6	15.5	2 620	126 S	28 500	19.3	1 810	49 S	7 660	15.0	1 160	38 S	3 810	6
7	15.0	2 690	130 S	30 200	19.5	1 710	43 S	6 350	15.5	1 060	35 S	3 210	7
8	14.5	2 620	125 S	28 300		1 660	43	6 170		1 010	30	2 620	8
9	14.5	2 560	112 S	24 800		1 660	43	6 170		1 010	26	2 270	9
10		2 440	81	17 100		1 680	46	6 680	15.5	995	26 S	2 240	10
11		2 190	60	11 400		1 740	54	8 120	16.0	1 030	29 S	2 580	11
12	15.5	2 010	59 S	10 200		1 790	70	10 800	15.5	1 040	32 S	2 880	12
13	16.0	1 900	54 S	8 860		1 830	86	13 600	15.5	1 060	37 S	3 390	13
14	16.8	1 870	56 S	9 050		1 850	103	16 500		1 030	42	3 740	14
15	17.5	1 910	59 S	9 740		1 870	114	18 400		946	43	3 510	15
16		1 980	48	8 210		1 810	110	17 200	15.0	898	47 S	3 650	16
17		2 020	46	8 030	19.0	1 740	84 S	12 600		847	48	3 510	17
18		2 050	47	8 320	18.8	1 650	72 S	10 300		821	43	3 050	18
19		2 050	54	9 560		1 570	67 S	9 090	15.0	838	35 S	2 530	19
20		2 080	68	12 200	19.0	1 530	64 S	8 460		889	35	2 690	20
21		2 160	86	16 000		1 520	64	8 400		946	40	3 270	21
22	18.0	2 250	104 S	20 200		1 510	56	7 310	14.5	985	47 S	4 000	22
23		2 220	109	20 900	19.0	1 490	57 S	7 340		946	55	4 500	23
24	18.0	2 190	99 S	18 700	19.0	1 440	52 S	6 470		889	60	4 610	24
25	17.8	2 160	93 S	17 400	18.5	1 370	50 S	5 920	13.5	804	56 S	3 890	25
26	18.3	2 100	82 S	14 900	18.5	1 340	46 S	5 330		753	46	2 990	26
27	18.5	2 100	76 S	13 800		1 330	48	5 520		719	36	2 240	27
28		2 070	71	12 700		1 380	56	6 680	11.5	685	29 S	1 720	28
29		2 050	77	13 600		1 380	67	7 990		660	25	1 430	29
30	18.0	2 100	78 S	14 200		1 360	73	8 580		634	24	1 310	30
31	18.0	2 160	82 S	15 300		1 260	71	7 730					31
TOTAL		68 680		483 870		51 550		302 340		28 335		101 710	TOTAL
MEAN		2 220		15 600		1 660		9 750		945		3 390	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.5	617	24 S	1 280		643	151	8 390		532	14	644	1
2		617	24	1 280		736	156	9 920		487	14	589	2
3		617	26	1 390	5.5	1 040	146 S	13 100		476	14	576	3
4		685	26	1 540		1 100	127	12 100		476	15 S	617	4
5		668	24	1 390		1 130	114	11 100		464	16	641	5
6	9.5	660	20 S	1 140	5.0	1 220	115 S	12 100		464	17	682	6
7		643	18	1 000		1 150	116	11 500		464	18	722	7
8		626	18	974		1 040	98	8 810		464	18	722	8
9		609	18	947		966	62	5 170		453	17	665	9
10		626	18	974	5.0	898	33 S	2 560		442	16	611	10
11		626	18	974		906	24	1 880		430	15 S	557	11
12		626	18	974		906	24	1 880		419	15	543	12
13		617	18	960		881	26	1 980		408	14	494	13
14		600	16	829		898	31	2 410		408	14	494	14
15		583	14	705	4.5	906	36 S	2 820		396	13	485	15
16	9.0	566	13 S	636		898	39	3 030		396	13	485	16
17		544	12	564		898	40	3 100		394 B	13 S	483	17
18		544	15	705		872	39	2 940		391 B	13	439	18
19		592	19	972		838	37	2 680		388 B	12	402	19
20		617	23	1 230		804	35	2 430		385 B	11	366	20
21		617	19	1 010		753	31	2 020		382 B	10	330	21
22	5.5	592	10 S	511		719	27	1 680		382 B	9	297	22
23		561	4	194	3.5	702	23 S	1 400		382 B	9	297	23
24		544	5	235		685	20	1 180		379 B	8 S	262	24
25		532	6	276		660	18	1 030		379 B	8	262	25
26		527	7	319		643	16	889		379 B	9	295	26
27		544	8	376		617	16	853		382 B	11	363	27
28	6.5	566	12 S	587	1.5	566	16 S	782		382 B	13	429	28
29		617	25	1 330	1.5	544	15 S	705		379 B	15	491	29
30		634	54	2 960		549	14	664		374 B	16 S	517	30
31		643	112	6 220						368 B	16	509	31
TOTAL		18 660		34 482		25 168		131 103		12 905		15 149	TOTAL
MEAN		602		1 110		839		4 370		416		489	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	196	
MAXIMUM DAILY	1 100	ON MAY 30
MINIMUM DAILY	4	ON OCT 23

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	22 100	
MAXIMUM DAILY	384 000	ON MAY 30
MINIMUM DAILY	194	ON OCT 23

TOTAL SUSPENDED SEDIMENT LOAD 8 061 464 t

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 31 48 N
LONG 122 26 32 W
DRAINAGE AREA 114 000 km^2
REGULATED FLOW SINCE 1952

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FRASER RIVER NEAR MARGUERITE - STATION NO. 08NC018

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 22	16:04	985 H	7.0	293 K	19	24	37	56	75	89	99	100				BNW
APR 25	06:38	1 710 H	6.0	948 K	9	13	23	38	55	74	94	99	100			BNW
APR 26	06:20	2 240 H	5.0	1 090 K	9	14	23	36	54	72	87	95	99	100		BNW
APR 27	05:30	2 190 H	5.0	633 K	10	15	30	45	61	78	91	97	99	100		BNW
APR 28	11:48	1 860 H	5.0	406 K	15	24	37	58	75	87	93	96	98	100		BNW
MAY 01	13:57	1 640 H	7.5	174 K	12	16	33	61	79	88	93	96	98	100		BNW
MAY 01	14:40	1 710	7.5	194 R	14	20	37	59	74	86	94	99	100			BNW
MAY 01	15:04	1 710	7.5	196 K	17	21	42	65	80	90	96	100				BNW
MAY 02	18:22	1 710 H		228 K	20	24	36	55	72	83	92	98	100			BNW
MAY 04	18:30	2 000 H	8.0	301 K	14	18	29	46	61	71	81	90	97	100		BNW
MAY 09	05:03	1 950 H	9.0	201 K	16	23	40	57	69	77	83	91	97	100		BNW
MAY 16	18:37	2 160 H	11.0	283 K	4	9	20	36	53	68	82	93	98	100		BNW
MAY 19	05:10	2 560 H	11.0	422 K	5	9	19	33	46	61	76	89	97	100		BNW
MAY 20	11:15	2 620 H	11.0	408 K	5	11	20	34	50	67	83	93	99	100		BNW
MAY 21	11:16	2 790 H	11.0	455 K	3	8	17	31	46	63	78	91	98	100		BNW
MAY 22	11:10	2 960 H	11.5	597 K	6	10	19	35	49	62	79	91	98	100		BNW
MAY 27	15:54	4 030 H	11.0	1 030 K	3	6	11	20	30	41	58	84	98	100		BNW
MAY 27	16:44	4 310	10.5	821 R	5	8	16	27	38	54	73	92	99	100		BNW
MAY 27	17:03	4 310	10.5	959 K	7	10	15	23	34	48	62	74	92	100		BNW
MAY 28	12:48	4 330 H	11.0	1 190 K	4	8	14	22	30	42	53	66	93	100		BNW
MAY 29	14:25	4 320 H	10.5	916 K	5	8	15	24	32	44	61	79	94	100		BNW
MAY 31	11:15	3 770 H	11.5	455 K	6	9	21	34	44	54	66	82	95	100		BNW
JUN 01	11:14	3 940 H	11.5	621 K	6	9	18	29	41	52	64	80	97	100		BNW
JUN 02	11:10	4 210 H	11.5	705 K	6	9	16	25	34	44	58	78	96	100		BNW
JUN 03	05:02	4 180 H	11.5	518 K	7	8	18	31	42	53	65	76	87	100		BNW
JUN 08	18:36	3 500 H	11.5	278 K	7	11	19	32	44	51	62	94	100			BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

KOOTENAI RIVER NEAR COPELAND - STATION NO. 08NN031

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		490	10	423		631	17	927		504	8	348	1
2		453	10	391		629	11	598		496	8	343	2
3		430	10	372		620	12	643		487	10	421	3
4		411	17	604		614	5	265		479	10	414	4
5		479	27	1 120		612	7	370		479	11	455	5
6		589	37	1 880		606	5	262		479	10	414	6
7		685	68	4 020		600	5	259		476	7	288	7
8		705	49	2 980		603	6	313		476	7	288	8
9		694	38	2 280		603	5	260		473	7	286	9
10		688	36	2 140		589	6	305		462	5	200	10
11		694	39	2 340		578	6	300		273	3	70.8	11
12		697	49	2 950		592	8	409		205	11	195	12
13		784	40	2 710		595	16	823		200	14	242	13
14		830	54	3 870		609	14	737		201	10	174	14
15		830	56	4 020		620	17	911		203	6	105	15
16		790	13	887		637	22	1 210		205	7	124	16
17		314	11	298		660	30	1 710		212	7	128	17
18		206	26	463		671	24	1 390		212	9	165	18
19		447	60	2 320		671	31	1 800		209	8	144	19
20		762	28	1 840		680	41	2 410		207	5	89.4	20
21		810	28	1 960		665	52	2 990		206	3	53.4	21
22		816	55	3 880		575	23	1 140		200	6	104	22
23		816	20	1 410		547	17	803		203	7	123	23
24		627	15	1 070		532	12	552		202	4	69.8	24
25		827	13	929		535	11	508		202	4	69.8	25
26		818	14	989		530	9	412		209	6	108	26
27		691	16	955		521	7	315		208	4	71.9	27
28		648	20	1 120		510	8	353		197	6	102	28
29		634	15	822						180	8	124	29
30		637	17	936						183	8	126	30
31		634	18	986						187	5	80.8	31
TOTAL		20 136		52 965		16 835		22 975		9 115		5 926.9	TOTAL
MEAN		650		1 710		601		821		294		191	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		188	10	162		699	58	3 500		481	10	416	1
2		190	18	295		770	72	4 790		640	30	1 660	2
3		186	9	145		660	57	3 250		750	10	648	3
4		183	11	174		549	27	1 280		736	10	636	4
5		178	11	169		473	18	736		691	21	1 250	5
6		180	3	46.7		419	13	471		688	8	476	6
7		181	9	141		382	12	396		660	12	684	7
8		176	6	91.2		357	7	216		651	13	731	8
9		176	7	106		340	6	176		688	12	713	9
10		177	5	76.5		345	4	119		705	14	853	10
11		171	4	59.1		382	7	231		711	17	1 040	11
12		167	6	86.6		402	8	278		702	16	970	12
13		171	6	88.6		382	7	231		682	10	589	13
14		165	6	85.5		371	7	224		648	12	672	14
15		162	7	98.0		430	18	669		677	16	936	15
16		163	8	113		580	19	952		750	21	1 360	16
17		171	7	103		578	17	849		745	22	1 420	17
18		180	11	171		532	12	552		750	24	1 560	18
19		193	25	417		535	12	555		748	22	1 420	19
20		204	10	176		558	13	627		733	20	1 270	20
21		229	10	198		589	14	712		677	20	1 170	21
22		257	10	222		629	16	870		770	15	998	22
23		294	7	178		623	17	915		770	17	1 130	23
24		433	16	599		600	13	674		892	22	1 700	24
25		583	55	2 770		603	12	625		883	38	2 900	25
26		527	52	2 370		643	11	611		850	46	3 380	26
27		462	32	1 280		620	12	643		691	31	1 850	27
28		433	18	673		580	11	551		518	14	627	28
29		518	19	850		547	9	425		513	5	222	29
30		600	36	1 870		572	8	395		719	10	621	30
31						496	5	214					31
TOTAL		7 898		13 814.2		16 246		26 737		21 119		33 902	TOTAL
MEAN		263		460		524		862		704		1 130	MEAN

BRITISH COLUMBIA

KOOTENAI RIVER NEAR COPELAND - STATION NO. 08NN031

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		742	18	1 150		697	9	542		274	4	94.7	1
2		733	22	1 390		694	8	480		286	4	98.8	2
3		954	50	4 120		660	8	456		289	2	49.9	3
4		1 100	141	13 400		597	7	361		283	3	73.4	4
5		1 110	56	5 370		583	6	302		306	3	79.3	5
6		1 100	118	11 200		580	4	200		311	3	80.6	6
7		1 180	125	12 700		575	6	298		176	3	45.6	7
8		1 240	176	18 900		575	7	348		185	4	63.9	8
9		1 230	178	18 900		566	6	293		268	3	69.5	9
10		1 160	111	11 100		314	5	136		274	4	94.7	10
11		1 050	43	3 900		439	10	379		274	9	213	11
12		861	21	1 560		462	9	359		274	9	213	12
13		934	51	4 120		479	9	372		184	12	191	13
14		697	30	1 810		484	5	209		156	8	108	14
15		640	3	166		484	6	251		320	6	166	15
16		631	32	1 740		294	5	127		326	4	113	16
17		742	54	3 460		294	5	127		317	4	110	17
18		850	32	2 350		467	7	282		337	7	204	18
19		804	24	1 670		462	7	279		402	15	521	19
20		648	12	672		456	8	315		197	7	119	20
21		612	12	635		459	6	238		152	4	52.5	21
22		617	21	1 120		379	4	131		317	3	82.2	22
23		807	20	1 390		245	3	63.5		402	4	139	23
24		742	13	833		226	2	39.1		419	3	109	24
25		728	11	692		362	3	93.8		331	3	85.8	25
26		742	11	705		323	4	112		297	3	77.0	26
27		776	14	939		280	3	72.6		158	2	27.3	27
28		787	12	816		283	3	73.4		155	3	40.2	28
29		773	10	668		283	4	97.8		289	2	49.9	29
30		725	16	1 000		207	4	71.5		314	2	54.3	30
31		691	7	418		233	4	80.5					31
TOTAL		26 406		128 894		13 442		7 189.2		8 273		3 425.6	TOTAL
MEAN		852		4 160		434		232		276		114	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		408	4	141		462	10	399		555	7	336	1
2		269	4	93.0		253	3	65.6		614	5	265	2
3		169	2	29.2		552	8	382		620	14	750	3
4		164	1	14.2		580	8	401		617	28	1 490	4
5		168	2	29.0		578	8	400		620	17	911	5
6		328	1	28.3		580	5	251		643	14	778	6
7		219	2	37.8		459	6	238		657	23	1 310	7
8		159	2	27.5		172	4	59.4		634	18	986	8
9		164	16	227		182	4	62.9		651	17	956	9
10		166	26	373		518	7	313		668	6	346	10
11		170	5	73.4		479	6	248		677	7	409	11
12		177	4	61.2		428	6	222		660	4	228	12
13		394	5	170		541	3	140		643	3	167	13
14		501	4	173		467	3	121		643	4	222	14
15		555	6	288		189	9	147		646	7	391	15
16		561	9	436		188	9	146		640	10	553	16
17		566	15	738		548	9	423		637	16	881	17
18		470	47	1 910		603	11	573		640	14	774	18
19		428	28	1 040		606	7	367		646	3	167	19
20		510	5	220		311	2	53.7		646	5	279	20
21		425	3	110		166	3	43.0		648	7	392	21
22		447	3	116		167	2	28.9		646	5	279	22
23		555	5	240		184	3	47.7		634	8	438	23
24		544	7	329		532	6	276		629	8	435	24
25		464	7	281		600	4	207		524	10	453	25
26		422	6	219		504	5	218		208	12	216	26
27		518	7	313		453	4	157		186	18	289	27
28		566	8	391		442	4	153		196	12	203	28
29		572	8	395		442	2	76.4		541	16	748	29
30		572	6	297		450	4	156		606	10	524	30
31		578	8	400						603	17	886	31
TOTAL		12 209		9 196.6		12 632		6 375.6		18 178		17 062	TOTAL
MEAN		394		297		421		213		586		550	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 178 ON JUL 09
MINIMUM DAILY 1 ON OCT 04

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 18 900 ON JUL 08
MINIMUM DAILY 14.2 ON OCT 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 54 43 N
LONG 116 24 59 W
DRAINAGE AREA 34 700 km^2
REGULATED FLOW
INTERNATIONAL GAUGING STATION

REMARKS - RECORDS PRIOR TO 1980 PUBLISHED UNDER 08NN021
SEDIMENT DATA CONTRIBUTED BY UNITED STATES GEOLOGICAL SURVEY

KOOTENAY RIVER AT NICKS ISLAND - STATION NO. 08NN129

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1													1
2	3.0		70 S										2
3					4.5		6 S		4.0		5 S		3
4													4
5					4.0		6 S		4.0		8 S		5
6	3.5		21 S										6
7					3.5		6 S						7
8													8
9									5.0		5 S		9
10	4.0		24 S		3.0		7 S						10
11									5.0		5 S		11
12					2.5		6 S						12
13	3.0		20 S		1.5		12 S		5.0		3 S		13
14					4.0		13 S						14
15	4.0		37 S										15
16									5.0		7 S		16
17	4.0		13 S		4.0		12 S						17
18									5.0		4 S		18
19					4.0		16 S						19
20	4.0		19 S						4.0		23 S		20
21					4.5		17 S						21
22	4.5		26 S										22
23									4.5		10 S		23
24													24
25					5.0		8 S		4.0		4 S		25
26					3.0		9 S						26
27	4.0		17 S		4.0		3 S		4.0		7 S		27
28													28
29													29
30	5.0		9 S						4.0		8 S		30
31	4.5		14 S										31
TOTAL MEAN													TOTAL MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	5.0		8 S						13.0		20 S		1
2					8.0		91 S						2
3	5.0		23 S						13.0		11 S		3
4													4
5					8.0		11 S						5
6	5.0		15 S						13.0		13 S		6
7									13.0		11 S		7
8	5.0		17 S				15 S		12.0		8 S		8
9									12.0		11 S		9
10	5.0		16 S		8.0		13 S		12.0		9 S		10
11			18 S						12.0		9 S		11
12									12.0		10 S		12
13	6.0		7 S		10.0		16 S		13.0		9 S		13
14									12.0		16 S		14
15									12.0		8 S		15
16	6.0		25 S						12.0		9 S		16
17									12.0		10 S		17
18	6.0		18 S		10.0		15 S		12.0		12 S		18
19									12.0		12 S		19
20					10.0		26 S		11.0		11 S		20
21	8.0		87 S						12.0		8 S		21
22					10.0		32 S		11.0		23 S		22
23	8.0		83 S						11.0		14 S		23
24									12.0		9 S		24
25	9.0		62 S						12.3		36 S		25
26					12.0		78 S		12.0		22 S		26
27									12.0		21 S		27
28	10.0		32 S		12.0		27 S		13.0		67 S		28
29									14.0		18 S		29
30	11.5		46 S		12.0		13 S		14.0		46 S		30
31													31
TOTAL MEAN													TOTAL MEAN

BRITISH COLUMBIA

KOOTENAY RIVER AT NICKS ISLAND - STATION NO. 08NN129

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	13.5		12 S		18.0		9 S		19.0		14 S		1
2	14.0		46 S						18.0		14 S		2
3	12.0		73 S		18.0		10 S						3
4	12.0		15 S		18.0		14 S						4
5	12.0		16 S		18.0		6 S		18.0		19 S		5
6	13.0		5 S		18.0		11 S						6
7	13.0		37 S		19.0		8 S						7
8	13.0		94 S						18.0		6 S		8
9	13.0		80 S		19.0		5 S		18.0		6 S		9
10	13.0		47 S		18.0		13 S						10
11	13.0		16 S		21.0		8 S		17.0		6 S		11
12	13.0		4 S		20.0		10 S						12
13	14.0		25 S		20.0		7 S						13
14	14.0		12 S										14
15	15.0		8 S		20.0		6 S		16.0		5 S		15
16	15.0		10 S		18.0		6 S						16
17	13.0		5 S		19.0		6 S		17.0		4 S		17
18	17.0		11 S		18.0		7 S						18
19	17.0		113 S		17.0		8 S		20.0		3 S		19
20	17.0		98 S		18.0		9 S						20
21	17.0		14 S		18.0		7 S						21
22	17.0		54 S		18.0		3 S						22
23	18.0		7 S		19.0		2 S						23
24	18.0		8 S		18.0		8 S						24
25	18.0		8 S		18.0		6 S						25
26	18.0		9 S		19.0		16 S						26
27	18.0		8 S		19.0		9 S		10.0		4 S		27
28					19.0		13 S						28
29	17.0		9 S						11.0		5 S		29
30	17.0		7 S										30
31	17.0		16 S										31
TOTAL MEAN													TOTAL MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	12.0		3 S		9.0		5 S		5.0		4 S		1
2									5.0		11 S		2
3	10.0		2 S		9.0		18 S		4.0		17 S		3
4													4
5	10.5		2 S		9.0		7 S		4.0		8 S		5
6													6
7	10.0		4 S		7.0		6 S		5.0		6 S		7
8													8
9	10.0		2 S		6.0		4 S		5.0		10 S		9
10													10
11	9.0		2 S		8.0		4 S		5.0		8 S		11
12													12
13	9.0		4 S		8.0		2 S						13
14									4.0		6 S		14
15	9.5		6 S										15
16					8.0		2 S		3.0		6 S		16
17	11.0		6 S										17
18					6.0		4 S		3.0		4 S		18
19	10.0		4 S										19
20					8.0		5 S						20
21	9.0		5 S						3.0		6 S		21
22					6.0		8 S						22
23	9.0		4 S										23
24					5.0		8 S						24
25													25
26	9.0		3 S		5.0		3 S						26
27									3.0		6 S		27
28	9.0		5 S		5.0		3 S						28
29													29
30	9.0		7 S						2.0		4 S		30
31													31
TOTAL MEAN													TOTAL MEAN

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 07 02 N
LONG 116 34 39 W

REGULATED FLOW SINCE 1972

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - WATER LEVEL STATION. INSTANTANEOUS SAMPLE VALUES ONLY 1978 AND AFTER.

BRITISH COLUMBIA

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB006

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		22.4 B				20.4 B				23.9 B			1
2		21.6 B				20.5 B				23.9 B			2
3		21.2 B				20.5 B				23.7 B			3
4		21.1 B				20.4 B				23.3 B			4
5		21.0 B				20.1 B				23.1 B			5
6		20.5 B				19.7 B				23.0 B			6
7		20.0 B				19.6 B				23.1 B			7
8		19.4 B				19.3 B				23.3 B			8
9		19.2 B				19.3 B				23.8 B			9
10		19.2 B				19.5 B				24.7 B			10
11		19.4 B				19.8 B				25.3 B			11
12		19.6 B				20.3 B				25.5 B			12
13		19.5 B				21.1 B				25.8 B			13
14		19.3 B				21.9 B				26.0 B			14
15		18.8 B				22.6 B				25.9 B			15
16		18.4 B				23.0 B				25.7 B			16
17		18.2 B				23.1 B				25.5 B			17
18		18.0 B				23.2 B				25.0 B			18
19		18.0 B				23.1 B				24.2 B			19
20		18.1 B				23.0 B				23.8 B			20
21		19.0 B				22.8 B				23.7 B			21
22		22.8 B				22.4 B				23.8 B			22
23		25.5 B				22.1 B				24.0 B			23
24		25.0 B				22.1 B				24.4 B			24
25		23.1 B				22.3 B				24.6 B			25
26		21.9 B				22.5 B				24.9 B			26
27		21.1 B				23.0 B				25.0 B			27
28		20.6 B				23.5 B				25.1 B			28
29		20.3 B								25.0 B			29
30		20.3 B								24.9 B			30
31		20.4 B								24.6 B			31
TOTAL		632.9				601.1				758.5			TOTAL
MEAN		20.4				21.5				24.5			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		24.4 B				81.0 E	24	168	7.0	330 E	119 S	3 390	1
2		24.2 B				93.0 E	25	201		280 A	56 S	1 350	2
3		24.3 B				91.0 E	26	204		258	41	914	3
4		24.6 B				89.0 E	27	208		245	38	804	4
5		24.6 B			3.0	98.0 A	30 S	254		219	34	643	5
6		24.3 B				108	44	411		188	30	487	6
7		24.1 B				115	53	527		173	26	389	7
8		23.9 B				140	88	1 060	8.0	153	22 S	291	8
9		23.5 B				163	118	1 660		139	19	228	9
10		23.2 B				175	123	1 860		137	17	201	10
11		23.0 B				166 A	116	1 660	8.0	137	16 S	189	11
12		22.9 B				153 E	119	1 570		148	17	217	12
13		22.9 B				175 E	142	2 150		153	17	225	13
14		23.0 B				208 E	206	3 700		150	15	194	14
15		23.0 B				265 E	221	5 060		149	15	193	15
16		23.5 B				258 E	191	4 260	9.0	151	14 S	183	16
17		24.0 B				260 E	179	4 020		144	12	149	17
18		25.8 B				270 E	180	4 200		125	9	97.2	18
19		29.0 E			6.0	290 E	196 S	4 910	11.0	113	8 S	78.1	19
20		35.0 E				322 E	234	6 510		112	8	77.4	20
21		38.5 E			6.0	362 E	304 S	9 510		110	8	76.0	21
22		43.0 E				423 E	391	14 300	12.0	105	8 S	72.6	22
23		58.0 E				395 E	281	9 590		99.1	8	68.5	23
24		95.5 A				370 E	178	5 690		102	8	70.5	24
25		76.0 E				362 E	185	5 790		102	8	70.5	25
26		49.0 E			6.0	418 E	207 S	7 480		102	8	70.5	26
27		44.0 E				380 E	161	5 290		101	8	69.8	27
28		45.0 E				315 E	121	3 290		95.2	8	65.8	28
29		50.2 E				285 E	92	2 270		95.6	10	82.6	29
30		58.0 E				290 E	76	1 900		120	14	145	30
31						305 E	93	2 450					31
TOTAL		1 050.4				7 425.0		112 153		4 535.9		11 091.5	TOTAL
MEAN		35.0				240		3 620		151		370	MEAN

BRITISH COLUMBIA

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB006

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		118	12	122		66.5	7	40.2		26.7	3	6.92	1
2		107	11	102		61.2	7	37.0		34.7	3	8.99	2
3		109	12	113		56.7	7	34.3		34.8	3	9.02	3
4		117	14	142		53.8	7	32.5		30.0	3	7.78	4
5		105	11	99.8		51.0	7	30.8		26.2	3	6.79	5
6		91.7	9	71.3		49.5	7	29.9		23.8	3	6.17	6
7		85.3	8	59.0		49.7	7	30.1		25.9	3	6.71	7
8		76.7	8	53.0		48.9	7	29.6	14.0	29.5	3 S	7.65	8
9		68.2	8	47.1		47.1	7	28.5		31.1	3	8.06	9
10		62.1	8	42.9		46.1	7	27.9		32.1	3	8.32	10
11		58.3	7	35.3		46.3	6	24.0		30.5	3	7.91	11
12		59.8	8	41.3		46.5	6	24.1		27.0	3	7.00	12
13		72.1	12	74.8		46.1	6	23.9		23.4	3	6.07	13
14		85.0	12	88.1		41.9	6	21.7		20.7	3	5.37	14
15		88.6	11	84.2		39.3	6	20.4		19.0	2	3.28	15
16		81.2	11	77.2		37.8	6	19.6		19.1	2	3.30	16
17		76.4	10	66.0		37.2	6	19.3		21.5	3	5.57	17
18		78.2	11	74.3		34.8	5	15.0		23.8	4	8.23	18
19		83.5	11	79.4		33.2	5	14.3		25.0	4	8.64	19
20		90.2	11	85.7		32.8	5	14.2		24.4	3	6.32	20
21		90.3	11 S	85.8		32.7	5	14.1		20.8	2	3.59	21
22		84.4	9	65.6		32.2	5	13.9		18.3	2	3.16	22
23		79.9	8	55.2		31.8	5	13.7		16.5	2	2.85	23
24		79.6	7	48.1		31.3	5	13.5		15.2	2	2.63	24
25		72.8	6	37.7		32.1	4	11.1		14.7	2	2.54	25
26		66.5	6	34.5		36.8	4	12.7		13.9	2	2.40	26
27		66.7	6	34.6		38.0	4	13.1		13.1	2	2.26	27
28		67.5	6	35.0		37.2	4	12.9		12.5	2	2.16	28
29		73.5	6	38.1		34.5	3	8.94	5.0	12.6	2 S	2.18	29
30		82.7	8	57.2		29.1	3	7.54		13.3	2	2.30	30
31		74.6	7	45.1		26.1	3	6.77					31
TOTAL		2 551.8		2 095.3		1 288.2		645.55		680.1		164.17	TOTAL
MEAN		82.3		67.6		41.6		20.8		22.7		5.47	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		16.4	3	4.25		58.8				29.0 B			1
2		35.0	6	18.1		54.4				28.9 B			2
3		30.4	4	10.5		45.4				27.3 B			3
4		25.3	2	4.37		46.1				24.5 B			4
5		22.1	1	1.91		44.5				20.5 B			5
6		20.1	1	1.74		41.7				18.0 B			6
7		19.0	1	1.64		39.9				16.2 B			7
8		17.9	1	1.55		36.4				14.9 B			8
9		17.7	1	1.53		37.0				14.0 B			9
10		17.3	1	1.49		44.2				13.5 B			10
11		16.9	1	1.46		43.8				12.9 B			11
12		15.9	1	1.37		54.0				12.4 B			12
13		15.3	1	1.32		60.7				11.6 B			13
14		14.6	1	1.26		53.0				11.8 B			14
15		14.4	1	1.24		46.2				12.5 B			15
16		17.8	1	1.54		41.3				13.4 B			16
17		26.3	3	6.82		38.0 B				14.4 B			17
18		27.0	4	9.33		36.0 B				15.4 B			18
19		25.4	3	6.58		36.2 B				16.0 B			19
20	4.5	23.1	3 S	5.99		36.8 B				16.1 B			20
21		21.6	3	5.60		33.0 B				15.2 B			21
22		19.6	2	3.39		29.5 B				14.6 B			22
23		19.0	2	3.28		29.0 B				14.3 B			23
24		17.9	2	3.09		29.6 B				14.5 B			24
25		17.6	2	3.04		29.1 B				15.1 B			25
26		19.5	2	3.37		28.0 B				14.8 B			26
27		21.0	2	3.63		28.7 B				13.9 B			27
28		20.3	2	3.51		30.9 B				12.8 B			28
29		20.4	2	3.53		29.2 B				11.8 B			29
30		20.5	2	3.54		27.0 B				10.7 B			30
31		23.6	2	4.08						9.40 B			31
TOTAL		638.9		124.05		1 188.6				490.40			TOTAL
MEAN		20.6		4.00		39.6				15.8			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 03 55 N
LONG 121 01 00 W
DRAINAGE AREA 2 410 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		29.8 B				26.6 B				31.2 B			1
2		29.0 B				26.8 B				30.8 B			2
3		29.0 B				26.9 B				30.0 B			3
4		29.1 B				26.8 B				29.9 B			4
5		28.3 B				26.5 B				29.5 B			5
6		27.1 B				26.0 B				29.9 B			6
7		26.4 B				25.5 B				30.0 B			7
8		26.1 B				25.3 B				30.1 B			8
9		26.1 B				25.3 B				31.4 B			9
10		26.4 B				25.4 B				32.6 B			10
11		26.5 B				26.0 B				33.4 B			11
12		26.5 B				26.8 B				34.2 B			12
13		26.2 B				28.4 B				34.4 B			13
14		25.5 B				29.5 B				34.3 B			14
15		24.8 B				30.1 B				34.0 B			15
16		24.4 B				30.2 B				33.6 B			16
17		24.2 B				30.6 B				32.6 B			17
18		24.3 B				30.4 B				31.5 B			18
19		24.5 B				30.1 B				30.4 B			19
20		24.7 B				30.0 B				30.1 B			20
21		26.0 B				29.5 B				30.0 B			21
22		31.0 B				28.8 B				30.1 B			22
23		34.8 B				28.6 B				30.2 B			23
24		32.5 B				28.6 B				30.6 B			24
25		28.5 B				29.2 B				31.1 B			25
26		27.6 B				30.0 B				31.3 B			26
27		27.0 B				30.6 B				31.6 B			27
28		26.5 B				31.2 B				31.7 B			28
29		26.4 B								31.6 B			29
30		26.3 B								31.3 B			30
31		26.5 B								31.1 B			31
TOTAL		842.0				789.7				974.8			TOTAL
MEAN		27.2				28.2				31.4			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		30.9 B				92.0 E				592	780	39 900	1
2		30.4 B				112 E				519	370	16 600	2
3		30.1 B				110 E				438	235	8 890	3
4		30.2 B				106 E				400	162	5 600	4
5		30.5 B				111 E				363	129	4 050	5
6		30.9 B				123 E			9.0	311	120 S	3 220	6
7		30.8 B				150 E				281	103	2 500	7
8		30.3 B				195 E				249	86	1 850	8
9		30.0 B				222 E			9.0	222	72 S	1 380	9
10		29.8 B				240 E				212	63	1 150	10
11		29.5 B				220 E				209	62	1 120	11
12		29.0 B				212 E				230	72	1 430	12
13		29.0 B				280 E			9.0	244	100 S	2 110	13
14		29.1 B				355 E				242	86	1 800	14
15		29.2 B				426 A			9.0	236	78 S	1 590	15
16		30.5 B				417				233	71	1 430	16
17		32.8 B				410 A				230	66	1 310	17
18		35.7 B				431 E				203	61	1 070	18
19		41.8 E				451 A			10.0	182	56 S	881	19
20		49.0 E				487				171	49	724	20
21		52.0 E				524				165	42	599	21
22		60.0 E			8.0	601	1 570 S	81 500		156	36	485	22
23		80.0 E				644	1 900	106 000		147	30	381	23
24		119 E				569	1 280	62 900	10.0	143	24 S	297	24
25		102 E				546	1 070	50 500		145	21	263	25
26		87.0 E				610	1 430	75 400		141	20	244	26
27		71.0 E				631	989	53 900		142	20	245	27
28		67.8 E				510	527	23 200		138	20	238	28
29		72.0 E			8.0	430	316 S	11 700		130	20	225	29
30		82.5 E				419	325	11 800		145	28	351	30
31						458	530	21 000					31
TOTAL		1 432.8				11 092.0				7 219		101 933	TOTAL
MEAN		47.8				358				241		3 400	MEAN

BRITISH COLUMBIA

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		162	30	420		93.1	24	193		29.4	5	12.7	1
2		146	24	303		83.1	22	158		27.8	5	12.0	2
3		140	20	242		74.1	21	134		30.7	5	13.3	3
4		149	22	283		69.5	20	120		38.8	5	16.8	4
5		146	24	303		65.2	19	107		39.0	7	23.6	5
6		126	21	229		62.2	19	102		34.5	6	17.9	6
7		111	19	182		60.2	18	93.6		31.1	4	10.7	7
8		100	18	156		58.5	17	85.9		29.3	4	10.1	8
9		89.7	19	147		55.5	17	81.5		28.2	4	9.75	9
10		81.2	19	133		53.0	16	73.3		31.1	4	10.7	10
11		74.4	19	122		51.3	16	70.9		33.9	4	11.7	11
12		71.8	19	118		51.5	15	66.7		35.6	3	9.23	12
13		79.5	23	158		50.6	15	65.6		35.9	3	9.31	13
14		99.6	47	404		48.2	14	58.3		33.1	3	8.58	14
15		110	52	494		43.7	13	49.1		28.9	3	7.49	15
16		104	46	413		41.3	13	46.4		26.1	3	6.77	16
17		95.4	36	297		39.4	12	40.8		24.1	3	6.25	17
18		91.3	29	229		37.4	12	38.8		24.1	3	6.25	18
19		95.5	32	264		35.0	11	33.3		26.9	3	6.97	19
20		105	38	345		33.5	10	28.9		30.1	3	7.80	20
21		114	40	394		32.5	9	25.3		31.5	3	8.16	21
22		106	35	321		32.4	9	25.2		29.9	3	7.75	22
23		102	33 S	291		31.9	8	22.0		26.5	3	6.87	23
24		107	35	324		31.7	7	19.2		24.3	3	6.30	24
25		99.9	34	293		30.7	5	13.3		22.8	2	3.94	25
26		90.6	31	243		34.3	4	11.9		23.1	2	3.99	26
27		83.7	28	202		38.5	5	16.6		22.6	2	3.91	27
28		83.7	27	195	14.0	38.6	6 S	20.0		21.5	2	3.72	28
29		89.3	28	216		39.1	6	20.3		21.1	2	3.65	29
30		113	34	332		36.5	5	15.8	6.0	21.2	2 S	3.66	30
31		108	30	280		32.5	5	14.0					31
TOTAL		3 274.6		8 333		1 485.0		1 850.7		863.1		269.85	TOTAL
MEAN		106		269		47.9		59.7		28.8		9.00	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		22.0	2	3.80		45.1				34.8 B			1
2		28.7	6	14.9		79.9				35.1 B			2
3		46.3	11	44.0		72.0				35.0 B			3
4		40.1	10	34.6		63.1				32.5 B			4
5		35.1	9	27.3		67.1				29.8 B			5
6		32.0	8	22.1		64.2				27.6 B			6
7		30.2	7	18.3		61.6				25.2 B			7
8		28.2	6	14.6		58.2				23.0 B			8
9		26.8	5	11.6		54.9				21.6 B			9
10		26.9	5	11.6		58.7				20.4 B			10
11		26.7	4	9.23		66.0				19.5 B			11
12		25.8	4	8.92		66.4				18.8 B			12
13		25.1	3	6.51		86.1				18.4 B			13
14		23.6	3	6.12		83.9				17.9 B			14
15		22.8	3	5.91		75.0				18.5 B			15
16		22.4	2	3.87		64.2 B				19.8 B			16
17		26.9	3	6.97		58.0 B				21.0 B			17
18		37.3	7	22.6		49.8 B				22.8 B			18
19		37.7	5	16.3		46.0 B				24.0 B			19
20		34.9	3	9.05		46.7 B				24.0 B			20
21	3.0	32.8	1 S	2.83		44.3 B				23.0 B			21
22		31.2	1	2.70		40.0 B				22.1 B			22
23		29.7	1	2.57		37.0 B				21.7 B			23
24		28.8	1	2.49		37.5 B				21.7 B			24
25		27.4	1	2.37		37.0 B				22.4 B			25
26		27.1	1	2.34		35.5 B				22.1 B			26
27		30.1	3	7.80		35.2 B				21.3 B			27
28		31.3	2	5.41		36.8 B				19.5 B			28
29		30.1	2	5.20		35.7 B				17.9 B			29
30		30.0	1	2.59		34.0 B				16.1 B			30
31		30.8	1	2.66						15.0 B			31
TOTAL		928.8		337.24		1 639.9				712.5			TOTAL
MEAN		30.0		10.9		54.7				23.0			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 34 15 N
LONG 121 11 19 W
DRAINAGE AREA 5 620 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 22	15:00	601 H	8.0	1 570 K	9	15	25	39	55	78	97	100				BNW
MAY 29	11:15	430 H	8.0	308 K	14	21	33	49	68	85	95	99	100			BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

BRITISH COLUMBIA

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FB005

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.055 B				0.039 B				0.040 B			1
2		0.056 B				0.038 B				0.038 B			2
3		0.057 B				0.038 B				0.037 B			3
4		0.057 B				0.039 B				0.036 B			4
5		0.057 B				0.038 B				0.037 B			5
6		0.055 B				0.037 B				0.037 B			6
7		0.054 B				0.035 B				0.038 B			7
8		0.052 B				0.033 B				0.039 B			8
9		0.052 B				0.031 B				0.039 B			9
10		0.053 B				0.030 B				0.038 B			10
11		0.054 B				0.029 B				0.037 B			11
12		0.055 B				0.029 B				0.036 B			12
13		0.055 B				0.030 B				0.036 B			13
14		0.054 B				0.032 B				0.036 B			14
15		0.053 B				0.037 B				0.036 B			15
16		0.053 B				0.040 B				0.036 B			16
17		0.053 B				0.040 B				0.035 B			17
18		0.054 B				0.040 B				0.032 B			18
19		0.056 B				0.038 B				0.031 B			19
20		0.059 B				0.038 B				0.030 B			20
21		0.065 B				0.039 B				0.030 B			21
22		0.067 B				0.040 B				0.031 B			22
23		0.067 B				0.039 B				0.033 B			23
24		0.061 B				0.038 B				0.034 B			24
25		0.054 B				0.038 B				0.036 B			25
26		0.045 B				0.039 B				0.037 B			26
27		0.042 B				0.039 B				0.037 B			27
28		0.040 B				0.040 B				0.037 B			28
29		0.039 B								0.037 B			29
30		0.039 B								0.036 B			30
31		0.039 B								0.036 B			31
TOTAL		1.652				1.023				1.108			TOTAL
MEAN		0.053				0.036				0.035			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.036 B				2.17			7.0	1.64	46 S	6.52	1
2		0.036 B				1.55				1.09	21	1.98	2
3		0.037 B				1.32				0.809	13	0.91	3
4		0.037 B				1.26			7.0	0.638	8 S	0.44	4
5		0.037 B				1.23				0.540	6	0.28	5
6		0.036 B				1.15				0.481	6	0.25	6
7		0.036 B				1.18				0.416	6	0.22	7
8		0.035 B				2.20			12.0	0.369	6 S	0.19	8
9		0.034 B				2.53 A				0.344	5	0.15	9
10		0.033 B				2.05 E				0.342	4	0.12	10
11		0.032 B				1.56 E			6.0	0.462	6 S	0.24	11
12		0.032 B				1.07 A				0.775	6	0.40	12
13		0.032 B				0.992				0.697	5	0.30	13
14		0.033 B				1.03				0.595 E	4	0.21	14
15		0.033 B				1.16				0.510 E	4	0.18	15
16		0.035 B				1.04			9.0	0.425 A	4 S	0.15	16
17		0.037 B				0.901				0.412	4	0.14	17
18		0.045 B				0.807				0.399	5	0.17	18
19		0.067 B			5.0	0.702	15 S	0.91	8.0	0.370	5 S	0.16	19
20		0.100 B				0.617	9	0.48		0.307	4	0.11	20
21		0.155 B			5.0	0.616	7 S	0.37		0.271	3	0.07	21
22		0.230 B				0.645	7	0.39	9.0	0.243	3 S	0.06	22
23		0.350 B				0.587	7	0.36		0.217	3	0.06	23
24		1.20 B				0.551	7	0.33		0.200	3	0.05	24
25		0.930 B				0.534	7	0.32		0.184	3	0.05	25
26		0.770 B			7.0	0.923	25 S	1.99		0.170	2	0.03	26
27		0.670 A				0.787	18	1.22		0.228	6	0.12	27
28		0.916				0.649	14	0.79		0.242 A	2	0.04	28
29		1.11				0.554	12	0.57		0.200 E	2	0.03	29
30		1.35				0.531	12	0.55		0.168	2	0.03	30
31						1.18	56	5.71					31
TOTAL		8.484				34.076				13.744		13.66	TOTAL
MEAN		0.283				1.10				0.458		0.46	MEAN

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FB005

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.144	2	0.02		0.420 E	17	0.62		0.073	5	0.03	1
2		0.127	2	0.02		0.336	11	0.32		0.082	5	0.04	2
3		0.110	2	0.02		0.243	7	0.15		0.078	5	0.03	3
4		0.100	2	0.02		0.197	5	0.09		0.077	5	0.03	4
5		0.096	2	0.02		0.168	4	0.06		0.069	5	0.03	5
6		0.089	2	0.02		0.144	4	0.05		0.063	5	0.03	6
7		0.081	2	0.01		0.128	4	0.04		0.056	5	0.02	7
8		0.076	2	0.01		0.112	4	0.04	11.0	0.050	5 S	0.02	8
9		0.075	2	0.01		0.099	4	0.03		0.047	5	0.02	9
10		0.070	1	0.01		0.088	4	0.03		0.044	4	0.02	10
11		0.065	2	0.01		0.079	3	0.02		0.041	4	0.01	11
12		0.151	8	0.10		0.072	3	0.02		0.039	4	0.01	12
13		0.163	5	0.07		0.065	3	0.02		0.038	4	0.01	13
14		0.146	5	0.06		0.061	3	0.02		0.037	4	0.01	14
15		0.120	4	0.04		0.056	3	0.01		0.037	3	0.01	15
16		0.099	4	0.03		0.051	3	0.01		0.035	3	0.01	16
17		0.089	3	0.02		0.048	3	0.01		0.034	3	0.01	17
18		0.082	2	0.01		0.045	3	0.01		0.033	3	0.01	18
19		0.073	2	0.01		0.043	3	0.01		0.031	3	0.01	19
20		0.106	5	0.05		0.041	3	0.01		0.030	3	0.01	20
21		0.148 E	4	0.05		0.038	3	0.01		0.031	3	0.01	21
22		0.190 E	4	0.07		0.038	3	0.01		0.037	3	0.01	22
23		0.225 E	20	0.39		0.037	3	0.01		0.039	3	0.01	23
24		0.160 E	11	0.15		0.035	3	0.01		0.042	3	0.01	24
25		0.117 E	8	0.08		0.044	6	0.02		0.047	3	0.01	25
26		0.082 E	7	0.05		0.166	9	0.13		0.045	3	0.01	26
27		0.076 E	7	0.05		0.138	6	0.07		0.043	3	0.01	27
28		0.070 E	6	0.04		0.115	5	0.05		0.044	3	0.01	28
29		0.250 E	6	0.13		0.096	5	0.04	4.0	0.042	2 S	0.01	29
30		0.830 E	31	2.22		0.083	5	0.04		0.039	2	0.01	30
31		0.570 E	29	1.43		0.072	5	0.03					31
TOTAL		4.780		5.22		3.358		1.99		1.403		0.47	TOTAL
MEAN		0.154		0.17		0.108		0.06		0.047		0.02	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.056	2	0.01		0.118 B				0.035 B			1
2		0.048	2	0.01		0.106 B				0.033 B			2
3		0.047	2	0.01		0.094 B				0.026 B			3
4		0.046	2	0.01		0.088 B				0.023 B			4
5		0.046	1	0		0.086 B				0.022 B			5
6		0.044	1	0		0.084 B				0.018 B			6
7		0.045	1	0		0.078 B				0.012 B			7
8		0.046	1	0		0.070 B				0.008 B			8
9		0.045	2	0.01		0.062 B				0.007 B			9
10		0.045	1	0		0.065 B				0.006 B			10
11		0.045	2	0.01		0.066 B				0.004 B			11
12		0.047	1	0		0.068 B				0.004 B			12
13		0.051	1	0		0.074 B				0.003 B			13
14		0.051	1	0		0.058 B				0.004 B			14
15		0.047	1	0		0.049 B				0.006 B			15
16		0.044	1	0		0.043 B				0.009 B			16
17		0.041	1	0		0.042 B				0.012 B			17
18		0.040	1	0		0.043 B				0.015 B			18
19		0.040 A	1	0		0.046 B				0.018 B			19
20	1.0	0.039 B	1 S	0		0.050 B				0.020 B			20
21		0.038 B	1	0		0.047 B				0.018 B			21
22		0.037 B	1	0		0.040 B				0.016 B			22
23		0.037 B	1	0		0.036 B				0.014 B			23
24		0.036 B	1	0		0.035 B				0.015 B			24
25		0.037 B	1	0		0.038 B				0.016 B			25
26		0.038 B	1	0		0.036 B				0.014 B			26
27		0.038 B	1	0		0.038 B				0.012 B			27
28		0.037 B	1	0		0.041 B				0.010 B			28
29		0.036 B	1	0		0.038 B				0.008 B			29
30		0.038 B	1	0		0.033 B				0.006 B			30
31		0.046 B	1	0						0.004 B			31
TOTAL		1.331		0.06		1.772				0.418			TOTAL
MEAN		0.043		0		0.059				0.013			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 08 45 N
LONG 120 55 24 W
DRAINAGE AREA 29.5 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		76.0 B				61.8 B				56.2 B			1
2		77.8 B				62.0 B				54.0 B			2
3		78.2 B				61.8 B				53.7 B			3
4		76.5 B				61.0 B				53.2 B			4
5		74.3 B				60.9 B				52.0 B			5
6		74.0 B				60.7 B				51.9 B			6
7		74.0 B				60.8 B				51.8 B			7
8		73.0 B				61.4 B				51.9 B			8
9		72.2 B				61.8 B				52.2 B			9
10		72.0 B				60.5 B				51.6 B			10
11		72.5 B				59.0 B				50.7 B			11
12		73.3 B				58.5 B				50.6 B			12
13		72.7 B				58.0 B				50.8 B			13
14		71.8 B				57.8 B				50.9 B			14
15		70.4 B				57.6 B				50.3 B			15
16		70.0 B				57.8 B				49.2 B			16
17		69.6 B				58.0 B				48.0 B			17
18		69.1 B				58.3 B				47.4 B			18
19		69.7 B				58.4 B				46.6 B			19
20		70.0 B				58.0 B				46.5 B			20
21		69.6 B				57.0 B				46.6 B			21
22		68.5 B				56.2 B				46.7 B			22
23		68.0 B				55.3 B				46.8 B			23
24		66.4 B				54.1 B				46.9 B			24
25		65.8 B				53.8 B				47.0 B			25
26		64.3 B				53.9 B				47.0 B			26
27		63.7 B				54.0 B				47.0 B			27
28		63.0 B				54.1 B				46.5 B			28
29		62.2 B								45.7 B			29
30		61.8 B								44.8 B			30
31		61.5 B								44.0 B			31
TOTAL		2 171.9				1 632.5				1 526.5			TOTAL
MEAN		70.1				58.3				49.2			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		43.8 B				76.5 B	12	79.3		1 790	507 S	78 400	1
2		43.0 B				88.0 B	13	98.8		1 600	404 S	55 800	2
3		42.6 B				105 B	14	127		1 440	377 S	46 900	3
4		42.0 B				118 B	15	153		1 380	336 S	40 100	4
5		41.5 B				130 B	17	191		1 270	277 S	30 400	5
6		40.8 B				148	20	256		1 150	290 S	28 800	6
7		40.8 B				184	23	366		1 090	275 S	25 900	7
8		40.3 B				226	25	488		966	408 S	17 400	8
9		39.6 B				272	36	846		893	196 S	15 100	9
10		38.8 B				299	52	1 340		891	234 S	18 000	10
11		38.7 B				355	75	2 300		929	185 S	14 800	11
12		38.7 B				390	121	4 080		1 000	231 S	20 000	12
13		38.8 B				440	169	6 420		1 130	306 S	29 900	13
14		39.8 B				467	229	9 240		1 270	439 S	48 200	14
15		40.4 B				528	296	13 500		1 230	455 S	48 400	15
16		40.2 B				591	366 S	18 700		1 180	332 S	33 800	16
17		40.0 B				660	469 S	26 700		1 170	226 S	22 800	17
18		40.2 B				749	577 S	37 300		1 160	216 S	21 600	18
19		40.8 B				871	637 S	47 900		1 130	217 S	21 200	19
20		44.0 B				980	674 S	57 100		1 130	194 S	18 900	20
21		49.5 B				1 080	639 S	59 600		1 140	240 S	23 600	21
22		53.5 B				1 180	690 S	70 300		1 130	192 S	18 700	22
23		55.0 B				1 250	719 S	77 700		1 150	189 S	18 800	23
24		56.2 B				1 330	672 S	77 200		1 170	208 S	21 000	24
25		61.0 B				1 500	829 S	107 000		1 090	226 S	21 300	25
26		66.5 B				1 790	1 080 S	167 000		997	222 S	19 100	26
27		66.4 B				1 930	1 660 S	277 000		923	152 S	12 100	27
28		66.0 B				1 800	872 S	136 000		911	125 S	9 840	28
29		67.0 B				1 710	722 S	107 000		935	172 S	13 900	29
30		71.0 B				1 800	690 S	107 000		910	190 S	14 900	30
31						1 870	689 S	111 000					31
TOTAL		1 426.9				24 917.5		1 523 985.1		34 155		809 640	TOTAL
MEAN		47.6				804		49 200		1 140		27 000	MEAN

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		956	183 S	15 100		499	113 S	4 870		308	36 S	958	1
2		1 070	312 S	28 800		468	111 S	4 490		285	35 S	862	2
3		1 020	307 S	27 100		473	81 S	3 310		262	27 S	611	3
4		881	331 S	25 200		480	80 S	3 320		244	24 S	506	4
5		799	178 S	12 300		514	88 S	3 910		242	21 S	439	5
6		743	119 S	7 640		516	103 S	4 590		287	36 S	893	6
7		686	110 S	6 520		474	102 S	4 180		402	210 S	7 290	7
8		640	103 S	5 700		439	75 S	2 840		412	197 S	7 010	8
9		652	143 S	8 060		418	67 S	2 420		495	132 S	5 650	9
10		628	85 S	4 610		403	59 S	2 050		568	125 S	6 130	10
11		705	319 S	19 400		374	51 S	1 650		566	153 S	7 480	11
12		848	582 S	42 600		352	50 S	1 520		507	149 S	6 530	12
13		973	333 S	28 000		325	47 S	1 320		438	117 S	4 430	13
14		997	323 S	27 800		307	33 S	875		381	74 S	2 440	14
15		983	260 S	22 100		297	32 S	821		388	32 S	1 070	15
16		992	221 S	18 900		291	29 S	729		406	29 S	1 020	16
17		1 010	152 S	13 300		273	29 S	684		397	35 S	1 200	17
18		1 030	247 S	22 000		259	30 S	671		422	41 S	1 490	18
19		1 010	365 S	31 900		255	27 S	595		382	67 S	2 210	19
20		904	381 S	29 800		251	32 S	694		342	54 S	1 600	20
21		821	402 S	28 500		261	25 S	564		311	29 S	779	21
22		758	233 S	15 300		269	23 S	535		297	24 S	616	22
23		720	135 S	8 400		254	28 S	614		286	30 S	741	23
24		729	129 S	8 130		240	28 S	581		270	23 S	537	24
25		779	119 S	8 010		263	72 S	1 640		250	28 S	605	25
26		736	110 S	6 990		316	68 S	1 860		237	51 S	1 040	26
27		684	100 S	5 910		308	66 S	1 760		231	49	978	27
28		659	70 S	3 990		360	192 S	5 970		226	43	840	28
29		623	65 S	3 500		393	202 S	6 860		226	37	722	29
30		581	70 S	3 510		348	101 S	3 040		244	32	675	30
31		536	90 S	4 170		324	66 S	1 850					31
TOTAL		25 153		493 240		11 004		70 813		10 312		67 352	TOTAL
MEAN		811		15 900		355		2 280		344		2 250	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		252	30	653		182				118			1
2		235	23	467		168				117			2
3		219	22	416		155				112			3
4		204	25	441		159				110 B			4
5		199	22	378		166				106 B			5
6		199	16	275		188				104 B			6
7		195	17	286		190				103 B			7
8		191	25	413		158				101 B			8
9		187	46	743		143				97.0 B			9
10		182	60	943		151				94.0 B			10
11		177	49	749		168				93.0 B			11
12		173	38	568		178				93.0 B			12
13		174	32	481		189				92.5 B			13
14		186	28	450		184				91.0 B			14
15		223	21	405		164				90.0 B			15
16		268	21	486		162				89.0 B			16
17		270	24	560		157				85.5 B			17
18		251	18	390		137				80.0 B			18
19		247	18 S	384		125				76.5 B			19
20		228	16	315		128				76.0 B			20
21		208	12	216		134				75.0 B			21
22		199	11	189		142				74.5 B			22
23		202	13	227		147				71.5 B			23
24		216	14	261		141				68.0 B			24
25		235	14	284		129				62.5 B			25
26		250	19	410		127				57.0 B			26
27		239	38	785		130				55.5 B			27
28		223	89	1 710		127				54.5 B			28
29		213	107	1 970		117				54.0 B			29
30		201	97	1 680		111				54.0 B			30
31		192	83	1 380						54.0 B			31
TOTAL		6 638		18 915		4 557				2 605.0			TOTAL
MEAN		214		610		152				84.0			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 660 ON MAY 27

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 277 000 ON MAY 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 02 38 N
LONG 129 56 45 W
DRAINAGE AREA 18 800 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 16	16:10	591 H	2.5	409 K	13	21	31	43	57	71	86	98	100			BNW
MAY 18	22:00	749 H	2.7	645 K	7	10	19	28	36	50	67	81	92	100		BNW
MAY 19	11:20	871 H	2.7	670 K	7	13	19	27	35	46	58	77	95	100		BNW
MAY 22	20:00	1 180 H	6.5	776 K	9	13	18	24	31	40	54	71	89	100		BNW
MAY 25	17:15	1 500 H	5.5	937 K	7	11	17	25	33	42	56	72	89	99	100	BNW
MAY 27	19:30	1 930 H	6.0	1 860 K	9	11	15	21	27	36	49	67	86	99	100	BNW
MAY 30	14:30	1 800 H	6.0	722 K	14	20	28	35	42	52	66	80	91	100		BNW
MAY 31	15:00	1 870 H	6.5	752 K	11	15	20	27	34	46	69	84	95	100		BNW
JUN 03	18:50	1 440 H	6.8	400 K	9	12	18	26	32	41	64	70	85	100		BNW
JUN 06	15:15	1 150 H	7.0	319 K	21	24	35	43	49	59	75	88	97	100		BNW
JUN 08	16:45	966 H	7.5	203 K	26	27	41	47	54	66	78	90	97	100		BNW
JUN 10	17:40	891 H	7.6	276 K	25	33	42	51	58	68	78	89	97	100		BNW
JUN 13	16:45	1 130 H	8.0	338 K	5	9	15	23	28	36	50	70	95	100		BNW
JUN 14	16:45	1 270 H	7.8	500 K	8	13	19	26	32	40	49	78	97	100		BNW
JUN 17	17:45	1 170 H	7.5	210 K	8	12	21	36	46	56	69	80	90	100		BNW
JUN 18	17:30	1 160 H	7.6	244 K	21	25	38	45	51	59	72	83	95	100		BNW
JUN 21	21:45	1 140 H	7.6	316 K	18	23	32	38	42	47	55	67	86	100		BNW
JUN 24	17:00	1 170 H	7.5	217 K	18	27	36	43	50	59	72	89	98	100		BNW
JUN 25	20:00	1 090 H	7.5	252 K	7	13	22	29	35	44	58	80	97	100		BNW
JUL 02	20:00	1 070 H	7.5	394 K	4	5	13	19	24	33	52	64	79	100		BNW
JUL 03	20:00	1 020 H	7.5	293 K	4	10	17	26	32	42	63	82	94	100		BNW
JUL 12	19:00	848 H	7.8	532 K	8	11	16	21	26	34	51	70	85	94	100	BNW
JUL 13	12:00	973 H	7.8	343 K	17	21	29	37	45	55	69	84	95	100		BNW
JUL 14	11:00	997 H	7.8	363 K	18	21	30	38	44	53	72	87	96	100		BNW
JUL 15	14:00	983 H	8.2	269 K	13	20	30	40	48	58	71	84	95	100		BNW
JUL 16	21:30	992 H	8.2	240 K	15	24	35	45	52	63	77	90	98	100		BNW
JUL 20	20:00	904 H	8.5	405 K	16	20	31	40	46	55	71	85	96	100		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK - STATION NO. 07FB007

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		9.30 B				8.70 B				8.80 B			1
2		9.25 B				8.70 B				8.60 B			2
3		9.25 B				8.70 B				8.40 B			3
4		9.25 B				8.80 B				8.30 B			4
5		9.20 B				8.70 B				8.30 B			5
6		9.20 B				8.60 B				8.40 B			6
7		9.10 B				8.50 B				8.60 B			7
8		9.00 B				8.40 B				8.80 B			8
9		9.00 B				8.40 B				9.00 B			9
10		9.05 B				8.38 B				9.15 B			10
11		9.10 B				8.40 B				9.40 B			11
12		9.10 B				8.45 B				9.45 B			12
13		9.00 B				8.60 B				9.60 B			13
14		8.80 B				8.75 B				9.60 B			14
15		8.60 B				8.80 B				9.50 B			15
16		8.50 B				8.80 B				9.40 B			16
17		8.50 B				8.75 B				9.20 B			17
18		8.60 B				8.70 B				9.00 B			18
19		8.75 B				8.65 B				8.90 B			19
20		9.74 B				8.70 B				8.80 B			20
21		11.0 B				8.80 B				8.80 B			21
22		13.5 B				8.70 B				8.80 B			22
23		13.0 B				8.60 B				8.90 B			23
24		12.0 B				8.50 B				9.10 B			24
25		10.5 B				8.60 B				9.20 B			25
26		10.0 B				8.60 B				9.30 B			26
27		9.50 B				8.80 B				9.40 B			27
28		9.20 B				9.00 B				9.40 B			28
29		8.90 B								9.30 B			29
30		8.60 B								9.20 B			30
31		8.60 B								9.00 B			31
TOTAL		295.09				242.08				279.60			TOTAL
MEAN		9.52				8.65				9.02			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTPATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		8.98 B				43.5 E	24	90.2		167	100	1 480	1
2		9.00 B				46.5 E	25	100		145	72 S	902	2
3		9.00 B				42.0 E	26	94.3		128	73	807	3
4		9.15 B				47.0 E	27	110		124	76	814	4
5		9.35 B			3.5	56.7 A	30 S	147	8.0	96.4	74 S	616	5
6		9.40 B				63.2	32	175		84.7	71	520	6
7		9.40 B				65.3	37	209		78.0	61	411	7
8		9.30 B				77.5	50	335		66.9	44	254	8
9		9.14 B				90.2	79	616		60.6	31	162	9
10		9.00 B				103	109	970	7.0	57.9	25 S	125	10
11		8.98 B				88.5	97	742		59.2	27	138	11
12		8.96 B				91.0	110	865	5.0	65.3	33 S	186	12
13		8.93 B				110	133	1 260		66.1	31	177	13
14		8.90 B				127	181	1 990		65.5	29	164	14
15		8.94 B				126	162 S	1 760	7.0	65.7	25 S	142	15
16		9.00 B				115	161	1 600		63.0	22	120	16
17		9.30 B				133	167	1 920		57.0	20	98.5	17
18		10.1 B				148	170	2 170	7.0	49.0	18 S	76.2	18
19		11.6 B				175	176	2 660		45.7	16	63.2	19
20		15.0 B			5.0	191	184 S	3 040		48.4	15	62.7	20
21		20.0 E				212	207	3 790		45.8	14	55.4	21
22		26.2 E				266	217	4 990		43.5	13	48.9	22
23		35.0 E				216	164	3 060	8.0	41.0	11 S	39.0	23
24		51.0 E				199	153	2 630		41.5	11	39.4	24
25		48.0 E				197	150	2 550		41.0	11	39.0	25
26		44.0 E				224	155	3 000		39.8	11	37.8	26
27		40.5 E				182	131	2 060		36.8	11	35.0	27
28		36.7 E				137	116	1 370		35.5	11	33.7	28
29		38.3 E			9.0	130	109 S	1 220		38.6	10	33.4	29
30		40.6 E				148	115	1 430		40.8	10	35.3	30
31						175	121	1 830					31
TOTAL		571.73				4 021.4		48 783.5		1 997.7		7 675.5	TOTAL
MEAN		19.1				130		1 570		66.6		256	MEAN

BRITISH COLUMBIA

SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK - STATION NO. 07FB007

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		34.8	10	30.1		19.1 E	9	14.9		5.55	3	1.44	1
2		34.7	10	30.0		17.6 E	9	13.7		6.50	3	1.68	2
3		36.0	10	31.1		16.2 E	9	12.6		6.37	3	1.65	3
4		35.8	10	30.9		15.3 E	8	10.6		6.42	3	1.66	4
5		29.3	10	25.3		14.3 E	8	9.88		6.28	3	1.63	5
6		27.1	10	23.4		13.2 E	8	9.12		6.31	3	1.64	6
7		25.6	10	22.1		12.5 E	8	8.64		6.68	3	1.73	7
8		23.3	10	20.1		11.7 E	8	8.09		6.32	3	1.64	8
9		24.3	10	21.0		11.0 E	7	6.65		5.90	3	1.53	9
10		25.6	10	22.1		10.5 E	7	6.35		5.59	3	1.45	10
11		26.4	10	22.8		10.0 E	7	6.05	12.0	5.45	3 S	1.41	11
12		25.3	10	21.9		9.40 E	7	5.69		5.07	3	1.31	12
13		23.9	10	20.6		8.90 E	7	5.38		4.72	3	1.22	13
14		24.9	10	21.5		8.42 E	7	5.09		4.36	3	1.13	14
15		23.8	10	20.6		8.00 E	6	4.15		4.13	3	1.07	15
16		24.2	10	20.9		7.75 E	6	4.02		4.02	3	1.04	16
17		24.9	10	21.5		7.45 E	6	3.86		3.71	3	0.96	17
18		24.0	10	20.7		7.12 E	5	3.08		3.67	3	0.95	18
19		23.4	10	20.2		6.90 E	5	2.98		3.62	3	0.94	19
20		22.8	10	19.7		6.60 E	5	2.85		3.19	3	0.83	20
21	12.0	22.8 A	10 S	19.7		6.35 E	5	2.74		2.98	3	0.77	21
22		23.6 E	10	20.4		6.20 E	4	2.14		2.89	3	0.75	22
23		24.5 E	10	21.2		6.03 E	4	2.08		2.83	3	0.73	23
24		25.0 E	10	21.6		6.00 E	4	2.07		2.82	3	0.73	24
25		23.5 E	10	20.3		6.25 E	3	1.62		2.63	3	0.68	25
26		22.3 E	9	17.3	13.0	6.64 A	3 S	1.72		2.40	3	0.62	26
27		22.0 E	9	17.1		6.41	3	1.66		2.35	3	0.61	27
28		22.1 E	9	17.2		6.43	3	1.67		2.54	3	0.66	28
29		22.4 E	9	17.4		6.40	3	1.66		3.30	3	0.86	29
30		21.9 E	9	17.0		5.80	3	1.50	7.0	3.87	3 S	1.00	30
31		20.6 E	9	16.0		5.36	3	1.39					31
TOTAL		790.8		671.7		289.81		163.93		132.47		34.32	TOTAL
MEAN		25.5		21.7		9.35		5.29		4.42		1.14	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		19.3	9	15.0		22.3 B				10.5 B			1
2		21.9	5	9.46		21.0 B				10.9 B			2
3		14.7	3	3.81		20.0 B				10.3 B			3
4		11.9	3	3.08		20.4 B				9.10 B			4
5		10.1	3	2.62		21.0 B				8.45 B			5
6		9.06	3	2.35		20.9 B				7.70 B			6
7		8.08	3	2.09		21.3 B				6.90 B			7
8		7.27	3	1.88		20.9 B				6.30 B			8
9		6.71	3	1.74		30.0 B				6.00 B			9
10		6.30	3	1.63		52.0 B				5.65 B			10
11		6.03	3	1.56		43.5 B				5.45 B			11
12		5.69	3	1.47		56.0 B				5.25 B			12
13		5.43	3	1.41		55.0 B				5.15 B			13
14		5.32	3	1.38		44.0 B				5.30 B			14
15		6.49	3	1.68		35.0 B				5.55 B			15
16		11.7	3	3.03		28.5 B				5.75 B			16
17		14.2	2	2.45		25.5 B				6.05 B			17
18		13.1	2	2.26		24.5 B				6.40 B			18
19		11.7	2	2.02		22.5 B				6.55 B			19
20		10.0	2	1.73		20.2 B				6.60 B			20
21	2.0	8.62 A	1 S	0.74		17.5 B				6.35 B			21
22		8.55 B	1	0.74		15.5 B				6.18 B			22
23		8.57 B	1	0.74		14.3 B				6.09 B			23
24		8.65 B	1	0.75		14.2 B				6.20 B			24
25		8.80 B	1	0.76		14.2 B				6.10 B			25
26		9.30 B	1	0.80		12.8 B				5.50 B			26
27		9.35 B	1	0.81		11.8 B				4.70 B			27
28		9.40 B	1	0.81		11.8 B				3.60 B			28
29		9.90 B	1	0.86		11.3 B				3.00 B			29
30		12.0 B	1	1.04		10.4 B				2.50 B			30
31		15.0 B	1	1.30						2.25 B			31
TOTAL		313.12		72.00		738.3				192.32			TOTAL
MEAN		10.1		2.32		24.6				6.20			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	217 ON MAY 22	MAXIMUM DAILY	4 990 ON MAY 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 10 14 N
LONG 121 45 30 W
DRAINAGE AREA 927 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		15.1 B				16.7 B				19.9 B			1
2		15.1 B				16.8 B				19.7 B			2
3		15.1 B				16.9 B				19.1 B			3
4		15.2 B				16.9 B				19.0 B			4
5		15.1 B				16.9 B				19.0 B			5
6		15.0 B				16.6 B				19.1 B			6
7		14.9 B				16.6 B				19.2 B			7
8		14.7 B				16.8 B				19.6 B			8
9		14.6 B				17.0 B				20.5 B			9
10		14.5 B				17.2 B				21.0 B			10
11		14.5 B				17.4 B				21.7 B			11
12		14.2 B				17.9 B				22.0 B			12
13		14.0 B				18.5 B				22.3 B			13
14		13.7 B				19.5 B				22.3 B			14
15		13.4 B				20.0 B				22.4 B			15
16		13.2 B				20.4 B				22.0 B			16
17		13.3 B				20.5 B				21.5 B			17
18		13.5 B				20.3 B				21.0 B			18
19		14.0 B				19.8 B				20.3 B			19
20		16.0 B				20.0 B				20.0 B			20
21		23.0 B				20.0 B				19.7 B			21
22		25.0 B				19.7 B				19.8 B			22
23		24.5 B				19.7 B				20.0 B			23
24		23.0 B				19.8 B				20.4 B			24
25		20.5 B				19.9 B				20.7 B			25
26		18.7 B				20.0 B				21.0 B			26
27		18.0 B				20.3 B				21.2 B			27
28		17.4 B				20.3 B				21.3 B			28
29		17.0 B								21.0 B			29
30		16.6 B								20.5 B			30
31		16.6 B								20.2 B			31
TOTAL		509.4				522.4				637.4			TOTAL
MEAN		16.4				18.7				20.6			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTPATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		20.0 B				106 E				404	980 E	34 200	1
2		19.9 B				110 E				351	740 E	22 400	2
3		19.8 B				99.6 A				303	540 E	14 100	3
4		20.1 B				105				299	320 E	8 270	4
5		20.4 B				113			9.0	248	250 S	5 360	5
6		20.5 B				127				212	212	3 880	6
7		20.4 B				137				195	169	2 850	7
8		20.2 B				184				170	131	1 920	8
9		20.0 B				235				153	101	1 340	9
10		19.7 B				241				144	80	995	10
11		19.3 B				206				146	75	946	11
12		19.0 B			10.0	202	121 S	2 110	9.0	152	73 S	959	12
13		19.0 B				238				153	73	965	13
14		18.9 B				288				151	71	926	14
15		18.9 B				265			10.0	152	67 S	880	15
16		19.0 B				237				150	59	765	16
17		19.5 B				269				137	48	568	17
18		20.4 B				308			10.0	121	40 S	418	18
19		21.8 B				367				114	40	394	19
20		25.0 B				395				118	46	469	20
21		37.0 E				430				112	46	445	21
22		54.0 E				628				106	45	412	22
23		78.0 E				581			10.0	101	46 S	401	23
24		123 E				459				99.8	43	371	24
25		112 E				465				97.7	40	338	25
26		102 E				585				94.0	35	284	26
27		92.0 E				480				87.0	31	233	27
28		87.5 E				350				82.8	27	193	28
29		93.0 E				320				85.1	23	169	29
30		99.0 E				335				99.6	26	224	30
31						387							31
TOTAL		1 279.3				9 252.6				4 838.0		105 675	TOTAL
MEAN		42.6				298				161		3 520	MEAN

BRITISH COLUMBIA

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	12.0	85.5	22 S	163		34.0	11	32.3		9.48	5	4.10	1
2		81.1	21	147		30.7	10	26.5		11.3	5	4.88	2
3		82.0	21	149		28.4	10	24.5		11.6	4	4.01	3
4		82.2	20	142		27.1	10	23.4		11.4	4	3.94	4
5		70.4	20	122		25.5 A	10	22.0		11.8	3	3.06	5
6		62.6	20	108		24.2 E	10	20.9		11.4	3	2.95	6
7		57.5	20	99.4		22.5 E	10	19.4		11.4	3	2.95	7
8		51.6	20	89.2		20.9 E	9	16.3		11.6	3	3.01	8
9		45.6	19	74.9		19.8 E	9	15.4		10.6	2	1.83	9
10		42.9	19	70.4		18.5 E	9	14.4	14.0	9.76	2 S	1.69	10
11		40.6	19	66.6		17.5 E	9	13.6		9.65	2	1.67	11
12		41.8	18	65.0		16.3 E	9	12.7		9.16	2	1.58	12
13		47.0	18	73.1		15.5 E	9	12.1		8.76	2	1.51	13
14		52.7	17	77.4		14.9 E	9	11.6		8.68	2	1.50	14
15		52.2	17	76.7		14.1 E	9	11.0		8.74	2	1.51	15
16		47.2	17	69.3		13.4 E	9	10.4		8.26	2	1.43	16
17		43.7	16	60.4		12.8 E	9	9.95		7.90	2	1.37	17
18		43.1	15	55.9		12.1 E	9	9.41		7.86	2	1.36	18
19		44.5	15	57.7		11.7 E	8	8.09		7.76	2	1.34	19
20		47.7	14	57.7		11.1 E	8	7.67		7.65	2	1.32	20
21		51.2	14	61.9		10.6 E	8	7.33		7.58	2	1.31	21
22		47.6	13 S	53.5		10.2 E	8	7.05		7.36	2	1.27	22
23		48.3	13	54.3		9.90 E	8	6.84		7.26	2	1.25	23
24		49.1	13	55.1		9.60 E	8	6.64		7.51	2	1.30	24
25		45.3	12	47.0		9.30 E	7	5.62		7.63	2	1.32	25
26		40.7	12	42.2		9.40 E	7	5.69		7.81	2	1.35	26
27		38.3	12	39.7		9.80 E	7	5.93		7.71	2	1.33	27
28		37.8	12	39.2	13.0	10.3 A	7 S	6.23		7.66	2	1.32	28
29		39.2	11	37.3		10.3	6	5.34		8.45	2	1.46	29
30		38.6	11	36.7		10.3	6	5.34	8.0	9.52 A	4 S	3.29	30
31		36.2	11	34.4		9.61	5	4.15					31
TOTAL		1 594.2		2 326.0		500.31		387.78		273.25		62.21	TOTAL
MEAN		51.4		75.0		16.1		12.5		9.11		2.07	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		25.4	15	32.9		54.7				22.4 B			1
2		54.8	6	28.4		47.2				22.9 B			2
3		34.6	3	8.97		41.5				21.7 B			3
4		26.3	3	6.82		43.1				19.7 B			4
5		22.0	3	5.70		45.4				17.3 B			5
6		19.2	3	4.98		44.1				15.8 B			6
7		18.6	3	4.82		47.2				14.6 B			7
8		17.9	3	4.64		43.5				13.7 B			8
9		17.0	3	4.41		64.0				12.9 B			9
10		16.5	3	4.28		92.0				12.1 B			10
11		15.7	3	4.07		79.2				11.3 B			11
12		15.0	2	2.59		102				10.8 B			12
13		14.4	2	2.49		100				10.0 B			13
14		13.8	2	2.38		81.6				10.1 B			14
15		14.5	2	2.51		68.8				10.6 B			15
16		19.9	5	8.60		59.7				11.3 B			16
17		29.3	5	12.7		53.8 B				12.0 B			17
18		28.3	2	4.89		50.2 B				12.8 B			18
19		26.3	2	4.54		46.0 B				13.6 B			19
20		23.7	1	2.05		41.0 B				14.0 B			20
21		20.8	1	1.80		36.5 B				13.7 B			21
22	2.5	22.9	1 S	1.98		32.0 B				12.9 B			22
23		21.1	1	1.82		29.2 B				12.6 B			23
24		22.0	1	1.90		29.6 B				12.8 B			24
25		21.0	1	1.81		29.5 B				13.2 B			25
26		21.7	1	1.87		25.8 B				13.0 B			26
27		22.4	1	1.94		24.2 B				11.8 B			27
28		22.3	1	1.93		24.4 B				10.5 B			28
29		23.1	1	2.00		24.0 B				9.20 B			29
30		24.4	1	2.11		21.5 B				8.00 B			30
31		27.3	1	2.36						7.20 B			31
TOTAL		702.2		174.26		1 481.7				414.50			TOTAL
MEAN		22.7		5.62		49.4				13.4			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 32 34 N
LONG 121 37 28 W
DRAINAGE AREA 2 510 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0 B	0	0		0 B	0	0		1.13 B	15	1.46	1
2		0 B	0	0		0 B	0	0		0.910 B	14	1.10	2
3		0 B	0	0		0 B	0	0		0.885 B	12	0.92	3
4		0 B	0	0		0 B	0	0		0.699 B	11	0.66	4
5		0 B	0	0		0 B	0	0		0.579 B	10	0.50	5
6		0 B	0	0		0 B	0	0		0.502 B	9	0.39	6
7		0 B	0	0		0 B	0	0		0.440 B	9	0.34	7
8		0 B	0	0		0 B	0	0		0.398 B	8	0.28	8
9		0 B	0	0		0 B	0	0		0.375 B	8	0.26	9
10		0 B	0	0		0 B	0	0	0.5	0.351 B	8 S	0.24	10
11		0 B	0	0		0 B	0	0		0.337 B	8	0.23	11
12		0 B	0	0		0 B	0	0		0.324 B	9	0.25	12
13		0 B	0	0		0 B	0	0		0.322 B	9	0.25	13
14		0 B	0	0		0 B	0	0		0.310 B	9	0.24	14
15		0 B	0	0		0 B	0	0		0.287 B	10	0.25	15
16		0 B	0	0		0 B	0	0		0.301	10	0.26	16
17		0 B	0	0		0 B	0	0		0.292	11	0.28	17
18		0 B	0	0		0 B	0	0		0.293	11	0.28	18
19		0 B	0	0		0 B	0	0	0.5	0.286	11 S	0.27	19
20		0 B	0	0		0 B	0	0		0.265	11	0.25	20
21		0 B	0	0		0 B	0	0		0.257	11	0.24	21
22		0 B	0	0		0 B	0	0		0.227	11	0.22	22
23		0 B	0	0		0 B	0	0		0.200	11	0.19	23
24		0 B	0	0		0 B	0	0		0.180	11	0.17	24
25		0 B	0	0		0 B	0	0		0.168	11	0.16	25
26		0 B	0	0		1.76 B	25	3.80		0.158	11	0.15	26
27		0 B	0	0		2.96 B	31	7.93		0.132	11	0.13	27
28		0 B	0	0		1.67 B	19	2.74		0.117	12	0.12	28
29		0 B	0	0						0.083	12	0.09	29
30		0 B	0	0						0.051	12	0.05	30
31		0 B	0	0					3.0	0.058	12 S	0.06	31
TOTAL		0		0		6.39		14.47		10.917		10.29	TOTAL
MEAN		0		0		0.228		0.52		0.352		0.33	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.049	12	0.05		0.003	11	0		0	0	0	1
2		0.022	13	0.02		0.003	10	0		0	0	0	2
3		0.042	15 S	0.05		0.003	10	0		0	0	0	3
4		0.056	10 S	0.05		0.003	10 S	0		0	0	0	4
5		0.020	8	0.01		0.003	10	0		0	0	0	5
6		0.047	10	0.04		0.002	9	0		0	0	0	6
7		0.050	14	0.06		0.002	8	0		0	0	0	7
8		0.029	17 S	0.04		0.002	8 S	0		0	0	0	8
9		0.013	16	0.02		0.002	8	0		0	0	0	9
10		0.028	14 S	0.03		0.001	8	0		0	0	0	10
11		0.035	13	0.04		0.001	9	0		0	0	0	11
12		0.035	11	0.03		0.001	10	0		0	0	0	12
13		0.039	11	0.04		0.001	12 S	0		0	0	0	13
14		0.042	10	0.04		0.001	11	0		0	0	0	14
15		0.034	10 S	0.03		0.001	9	0		0	0	0	15
16		0.039	12	0.04		0.001	6	0		0	0	0	16
17		0.028	14 S	0.03		0.001	3	0		0	0	0	17
18		0.025	14	0.03		0.001	1	0		0	0	0	18
19		0.006	14	0.01		0	0	0		0	0	0	19
20		0.005	14	0.01		0	0	0		0	0	0	20
21		0.005	14	0.01		0	0	0		0	0	0	21
22		0.005	14	0.01		0	0	0		0	0	0	22
23		0.004	14	0		0	0	0		0	0	0	23
24		0.004	14 S	0		0	0	0		0	0	0	24
25		0.004	12	0		0	0	0		0	0	0	25
26		0.003	10	0		0	0	0		0	0	0	26
27		0.003	8	0		0	0	0		0	0	0	27
28	12.0	0.003	7 S	0		0	0	0		0	0	0	28
29		0.003	7	0		0	0	0		0	0	0	29
30		0.003	10	0		0	0	0		0	0	0	30
31						0	0	0					31
TOTAL		0.681		0.69		0.032		0		0		0	TOTAL
MEAN		0.023		0.02		0.001		0		0		0	MEAN

MANITOBA

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0	0	0		0	0	0		0	0	0	1
2		0	0	0		0	0	0		0	0	0	2
3		0	0	0		0	0	0		0	0	0	3
4		0	0	0		0	0	0		0	0	0	4
5		0	0	0		0	0	0		0	0	0	5
6		0	0	0		0	0	0		0	0	0	6
7		0	0	0		0	0	0		0	0	0	7
8		0	0	0		0	0	0		0	0	0	8
9		0	0	0		0	0	0		0	0	0	9
10		0	0	0		0	0	0		0	0	0	10
11		0	0	0		0	0	0		0	0	0	11
12		0	0	0		0	0	0		0	0	0	12
13		0	0	0		0	0	0		0	0	0	13
14		0	0	0		0	0	0		0	0	0	14
15		0	0	0		0	0	0		0	0	0	15
16		0	0	0		0	0	0		0	0	0	16
17		0	0	0		0	0	0		0	0	0	17
18		0	0	0		0	0	0		0	0	0	18
19		0	0	0		0	0	0		0	0	0	19
20		0	0	0		0	0	0		0	0	0	20
21		0	0	0		0	0	0		0	0	0	21
22		0	0	0		0	0	0		0	0	0	22
23		0	0	0		0	0	0		0	0	0	23
24		0	0	0		0	0	0		0	0	0	24
25		0	0	0		0	0	0		0	0	0	25
26		0	0	0		0	0	0		0	0	0	26
27		0	0	0		0	0	0		0	0	0	27
28		0	0	0		0	0	0		0	0	0	28
29		0	0	0		0	0	0		0	0	0	29
30		0	0	0		0	0	0		0	0	0	30
31		0	0	0		0	0	0					31
TOTAL		0		0		0		0		0		0	TOTAL
MEAN		0		0		0		0		0		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0	0	0		0	0	0		0 B	0	0	1
2		0	0	0		0	0	0		0 B	0	0	2
3		0	0	0		0	0	0		0 B	0	0	3
4		0	0	0		0	0	0		0 B	0	0	4
5		0	0	0		0	0	0		0 B	0	0	5
6		0	0	0		0	0	0		0 B	0	0	6
7		0	0	0		0	0	0		0 B	0	0	7
8		0	0	0		0	0	0		0 B	0	0	8
9		0	0	0		0	0	0		0 B	0	0	9
10		0	0	0		0	0	0		0 B	0	0	10
11		0	0	0		0	0	0		0 B	0	0	11
12		0	0	0		0	0	0		0 B	0	0	12
13		0	0	0		0	0	0		0 B	0	0	13
14		0	0	0		0	0	0		0 B	0	0	14
15		0	0	0		0	0	0		0 B	0	0	15
16		0	0	0		0	0	0		0 B	0	0	16
17		0	0	0		0	0	0		0 B	0	0	17
18		0	0	0		0	0	0		0 B	0	0	18
19		0	0	0		0 B	0	0		0 B	0	0	19
20		0	0	0		0 B	0	0		0 B	0	0	20
21		0	0	0		0 B	0	0		0 B	0	0	21
22		0	0	0		0 B	0	0		0 B	0	0	22
23		0	0	0		0 B	0	0		0 B	0	0	23
24		0	0	0		0 B	0	0		0 B	0	0	24
25		0	0	0		0 B	0	0		0 B	0	0	25
26		0	0	0		0 B	0	0		0 B	0	0	26
27		0	0	0		0 B	0	0		0 B	0	0	27
28		0	0	0		0 B	0	0		0 B	0	0	28
29		0	0	0		0 B	0	0		0 B	0	0	29
30		0	0	0		0 B	0	0		0 B	0	0	30
31		0	0	0						0 B	0	0	31
TOTAL		0		0		0		0		0		0	TOTAL
MEAN		0		0		0		0		0		0	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 25.45 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	16
MAXIMUM DAILY	31 ON FEB 27
MINIMUM DAILY	0 ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.07
MAXIMUM DAILY	7.93 ON FEB 27
MINIMUM DAILY	0 ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 34 N
LONG 101 02 56 W
DRAINAGE AREA 3 210 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		16.0 B	79	109		14.2 B	26	31.9		23.7 B	24	49.1	1
2		16.0 B	74	102		13.7 B	23 S	27.2		26.9 B	28	65.1	2
3		16.3 B	72	101		13.2 B	21	24.0		30.5 B	33	87.0	3
4		15.7 B	69	93.6		13.1 B	20	22.6		33.4 B	37 S	107	4
5		16.4 B	65	92.1		13.1 B	19	21.5		32.4 B	38	106	5
6		16.3 B	64	90.1		13.1 B	19	21.5		30.4 B	37	97.2	6
7		15.7 B	66	89.5		13.6 B	18	21.2		28.8 B	36	89.6	7
8		14.7 B	67	85.1		13.7 B	17	20.1		27.0 B	33	77.0	8
9		14.2 B	64	78.5		13.0 B	17	19.1		25.8 B	33	73.6	9
10		15.1 B	61	79.6		12.9 B	16	17.8		25.4 B	30	65.8	10
11		15.7 B	59	80.0		13.0 B	15	16.8		25.0 B	27	58.3	11
12		15.4 B	59	78.5		12.9 B	15	16.7		24.5 B	26	55.0	12
13		15.4 B	57	75.8		12.8 B	14	15.5		25.2 B	24	52.3	13
14		14.8 B	58	74.2		12.7 B	13	14.3		25.9 B	26	58.2	14
15		14.6 B	60	75.7		12.6 B	13	14.2		26.6 B	27	62.1	15
16		14.6 B	58	73.2		12.4 B	13	13.9		26.8 B	28	64.8	16
17		14.3 B	58	71.7		12.2 B	12	12.6		27.3 B	30	70.8	17
18		14.4 B	58	72.2		12.2 B	12	12.6		28.2 B	33 S	80.4	18
19	0.5	14.6 B	54 S	68.1		12.3 B	11	11.7		28.9 B	33	82.4	19
20		15.0 B	53	68.7		12.3 B	11	11.7		30.0 B	35	90.7	20
21		15.6 B	51	68.7		12.1 B	10	10.5		31.5 B	36	98.0	21
22		15.6 B	48	64.7		11.9 B	10	10.3		31.9 B	39	107	22
23		15.1 B	48	62.6		12.2 B	12	12.6		32.6 B	41	115	23
24		15.0 B	46	59.6	0.5	13.3 B	15 S	17.2		32.8 B	42	119	24
25		15.4 B	44	58.5		14.1 B	18	21.9		34.3 B	44	130	25
26		15.8 B	42	57.3		14.8 B	19	24.3		35.7 B	46	142	26
27		15.8 B	41	56.0		16.4 B	20	28.3		35.6 B	48	148	27
28		15.5 B	38	50.9		19.3 B	21	35.0		35.8 B	48	148	28
29		15.3 B	35	46.3						35.4 B	50	153	29
30		15.1 B	32	41.7						33.6 B	51	148	30
31		14.7 B	29	36.8					1.0	36.2 B	53 S	166	31
TOTAL		474.1		2 261.7		373.1		527.8		928.1		2 966.4	TOTAL
MEAN		15.3		73.0		13.3		18.8		29.9		95.7	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		47.2 B	75	306		8.79	38	28.9		13.1	42	47.5	1
2	0.1	61.5 B	224 S	1 190		7.13	24	14.8	19.0	13.1	36 S	40.7	2
3	0.5	47.3 B	253 S	1 030	12.0	8.23	38 S	27.0		13.2	36	41.1	3
4	0.1	35.4 B	217 S	664		10.1	40	34.9		13.5	35	40.8	4
5		36.3 B	214	671	12.0	15.4	56 S	74.5		13.7	35	41.4	5
6	1.0	35.1 B	306 S	928		31.2	125	337		14.0	34	41.1	6
7		28.8	182	453		28.1	99	240		14.2	35	42.9	7
8	7.0	28.7	152 S	377	11.0	19.1	63 S	104		14.0	39	47.2	8
9		29.1	157	395		22.1	62	118		14.4	40	49.8	9
10		30.4	160	420		21.1	64	117		14.8	44	56.3	10
11	5.0	30.7	160 S	424	10.0	18.4	50 S	79.5		14.8	47	60.1	11
12		30.8	138	367	13.0	19.2	47 S	78.0		14.8	50	63.9	12
13		27.7	106	254		19.1	45	74.3		15.0	58	75.2	13
14	6.0	23.8	81 S	167	15.0	21.8	100 S	188		15.0	69	89.4	14
15	4.0	21.5	60 S	111	13.0	21.5	87 S	162	17.0	14.9	81 S	104	15
16	11.0	25.8	83 S	185		17.2	45	66.9		15.4	93	124	16
17		26.7	131	302		19.8	67	115	19.0	15.7	103 S	140	17
18		25.7	115	255	18.0	19.9	47 S	80.8		15.5	100 S	134	18
19		25.9	111	248		17.1	36	53.2	19.0	15.3	100 S	132	19
20		25.5	109	240		15.3	33	43.6		15.7	122	165	20
21		25.1	107	232		14.9	31	39.9		15.4	127	169	21
22		25.4	99	217	19.0	15.0	35	45.4	20.0	15.4	125 S	166	22
23		23.9	86	178		15.1	34	44.4		15.2	125	164	23
24	8.0	22.9	74 S	146		14.3	29	35.8		15.8	128	175	24
25		20.3	61	107	12.0	13.2	26 S	29.7		16.8	133	193	25
26		14.2	50	61.3		13.6	34	40.0		17.5	140	212	26
27	2.0	11.6	40 S	40.1		14.3	83	103		18.0	150	233	27
28		9.39	33	26.8		14.6	113	143		18.6	159	256	28
29		8.22	29	20.6	17.0	14.1	94 S	115	25.0	18.9	161 S	263	29
30	12.0	8.87	50 S	38.3		11.9	57	58.6		19.1	162	267	30
31						12.9	47	52.4					31
TOTAL		813.78		10 054.1		518.45		2 744.6		460.8		3 638.4	TOTAL
MEAN		27.1		335		16.6		88.5		15.4		121	MEAN

MANITOBA

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		18.9	160	261		7.76	76	51.0	18.0	22.9	68 S	135	1
2		18.6	149	239		8.71	86	64.7		20.4	58	102	2
3		18.5	140	224		9.91	107	91.6		18.3	48	75.9	3
4		18.2	128	201	23.0	10.1	82 S	71.6		16.3	39	54.9	4
5		17.9	119	184		9.82	71	60.2		14.2	32	39.3	5
6		17.4	110	165		9.80	70	59.3		18.0	46	71.5	6
7		16.5	99	141		10.2	81	71.4	19.0	24.4	57 S	120	7
8		16.0	90	124		10.6	83	76.0		24.1	38	79.1	8
9		16.3	89	125		9.77	63	53.2		21.8	32	60.3	9
10	25.0	17.8	111 S	171		9.48	60	49.1		18.4	28	44.5	10
11		17.2	89	132		9.99	79	68.2		16.3	22	31.0	11
12		17.4	86	129		10.3	96	85.4		16.0	18	24.9	12
13	27.0	16.1 A	86 S	120		9.73	93	78.2		22.7	51	100	13
14		16.3 E	81	114	23.0	8.99	87 S	67.6	18.0	32.6	136 S	383	14
15	24.0	16.6 E	74 S	106		8.41	86	62.5		36.0	112	348	15
16		16.8 E	75	109		7.74	86	57.5		36.4	83	261	16
17		15.8 E	78	106		7.18	88	54.6		22.9	71	140	17
18		14.5 E	80	100	21.0	6.95	91 S	54.6		13.0	65	73.0	18
19		12.8 E	81	89.6		6.82	89	52.4	15.0	11.6	58 S	58.1	19
20		11.2 E	82	79.3		6.52	86	48.4		10.5	54	49.0	20
21		10.6 E	81	74.2		6.32	83	45.3		9.79	50	42.3	21
22	20.0	10.4 A	84 S	75.5		6.09	81	42.6		10.5	45	40.8	22
23		10.4	85	76.4		5.91	77	39.3		10.4	41	36.8	23
24		9.99	82	70.8		6.07	74	38.8		9.82	35	29.7	24
25	20.0	9.39	82 S	66.5		6.10	70	36.9		9.67	28	23.4	25
26		8.72	83	62.5		6.09	67	35.3		9.66	21	17.5	26
27		8.54	81	59.8		6.09	65	34.2		10.2	15	13.2	27
28		8.51	80	58.8		6.36	65	35.7	12.0	10.5	11 S	9.98	28
29		8.22	80	56.8		7.98	69	47.6		11.1	14	13.4	29
30		8.09	80	55.9		15.8	81	111		10.5	15	13.6	30
31		8.05	77	53.6		23.8	88	181					31
TOTAL		431.71		3 630.7		275.39		1 925.2		518.94		2 491.18	TOTAL
MEAN		13.9		117		8.88		62.1		17.3		83.0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	8.0	11.6	19 S	19.0		18.2	39	61.3		15.4 B	53	70.5	1
2		12.0	24	24.9		17.7	38	58.1		14.9 B	55	70.8	2
3		14.8	47	60.1		17.2	39	58.0		14.1 B	53	64.6	3
4		15.7	39	52.9		16.9	39	56.9		13.7 B	50	59.2	4
5		14.9	20	25.7	0.5	16.1	37 S	51.5		14.1 B	48	58.5	5
6	11.0	14.4	20 S	24.9		16.0	34	47.0		14.3 B	49	60.5	6
7		15.0	25	32.4		16.3	35	49.3		14.4 B	46	57.2	7
8		15.5	24	32.1		17.1	30	44.3		14.5 B	44	55.1	8
9		14.4	20	24.9	1.0	17.2	29 S	43.1		14.7 B	41	52.1	9
10		15.6	32	43.1	1.0	17.3	28 S	41.9		16.3 B	43	60.6	10
11		16.5	26	37.1		17.0	30	44.1		14.5 B	41	51.4	11
12		17.8	57	87.7		17.2	29	43.1		12.4 B	40	42.9	12
13	8.0	17.9	50 S	77.3		17.7	31	47.4		12.6 B	41	44.6	13
14		17.2	55	81.7		17.8	34	52.3		12.8 B	42	46.4	14
15		16.4	59	83.6		18.6	36	57.9		12.4 B	41	43.9	15
16	10.0	16.3	54 S	76.0		20.2	37	64.6	0.5	12.1 B	39 S	40.8	16
17		16.5	59	84.1		21.3	38	69.9		12.2 B	41	43.2	17
18		16.1	57	79.3		21.9	39	73.8		13.0 B	40	44.9	18
19		16.1	63	87.6		21.6	40	74.6		13.0 B	41	46.1	19
20		17.5	85	129		15.4 B	64	85.2		12.5 B	42	45.4	20
21	1.0	17.2	73 S	108		16.3 B	71	100.0		11.0 B	43	40.9	21
22		15.8	58	79.2		12.3 B	69	73.3		10.5 B	43	39.0	22
23		16.6	39	55.9		12.2 B	66	69.6		12.7 B	43	47.2	23
24		16.0 B	21	29.0		11.6 B	64	64.1		14.5 B	42	52.6	24
25	1.0	15.3 B	16 S	21.2		12.0 B	64	66.4		14.3 B	41	50.7	25
26		14.8 B	21	26.9		13.2 B	62	70.7		14.1 B	40	48.7	26
27		14.2	21	25.8		14.1 B	58	70.7		14.6 B	40	50.5	27
28		17.8	35	53.8		14.9 B	60	77.2		13.8 B	39	46.5	28
29		24.1	100	208		15.8 B	55	75.1		13.0 B	38	42.7	29
30		22.7	66	129		17.7 B	54	82.6		13.3 B	39	44.8	30
31		19.7	44	74.9						13.4 B	38	44.0	31
TOTAL		506.4		1 975.1		498.8		1 874.0		419.1		1 566.3	TOTAL
MEAN		16.3		63.7		16.6		62.5		13.5		50.5	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 35 650.68 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	66		MEAN	97.7	
MAXIMUM DAILY	306	ON APR 06	MAXIMUM DAILY	1 190	ON APR 02
MINIMUM DAILY	10	ON FEB 21	MINIMUM DAILY	9.98	ON SEP 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 09 N
LONG 97 24 10 W
DRAINAGE AREA 153 000 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES												METHOD OF ANALYSIS	TYPE OF SAMPLER
					0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	
APR 03	12:50	28.7	H	5	4	4	10	11	48	89	94	94	95	95	95	100		SHCMW	BM-54

H - DAILY MEAN DISCHARGE

MANITOBA

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		16.9 B	22	32.1		14.9 B	29	37.3		35.7 B	37	114	1
2		16.3 B	20	28.2		15.0 B	30	38.9	0.5	31.6 B	36 S	98.3	2
3		14.9 B	20	25.7		15.1 B	31	40.4		29.1 B	35	88.0	3
4		14.6 B	21	26.5		14.0 B	31	37.5		27.0 B	37	86.3	4
5	0.5	15.5 B	20 S	26.8	0.5	14.0 B	29 S	35.1		26.0 B	38	85.4	5
6		16.8 B	22	31.9		13.6 B	29	34.1		25.2 B	37	80.6	6
7		17.2 B	23	34.2		14.2 B	29	35.6		23.7 B	37	75.8	7
8		17.3 B	23	34.4		14.2 B	29	35.6		23.3 B	38	76.5	8
9		16.6 B	22	31.6	0.5	14.5 B	29 S	36.3		23.1 B	38	75.8	9
10		17.0 B	22	32.3		14.8 B	30	38.4		22.6 B	37	72.2	10
11		17.1 B	22	32.5		15.2 B	32	42.0		21.8 B	37	69.7	11
12		17.1 B	23	34.0		14.6 B	32	40.4		21.8 B	38	71.6	12
13		17.1 B	23	34.0		14.4 B	32	39.8		24.4 B	38	80.1	13
14		17.2 B	24	35.7		14.3 B	33	40.8		26.9 B	37	86.0	14
15	0.5	17.9 B	23 S	35.6		14.3 B	32	39.5		29.2 B	36	90.8	15
16		18.3 B	24	37.9		13.7 B	35	41.4		32.3 B	35	97.7	16
17		19.1 B	26	42.9		12.2 B	34	35.8		34.3 B	35	104	17
18		18.6 B	26	41.8		11.4 B	34	33.5	0.5	36.7 B	37 S	117	18
19		18.1 B	26	40.7		12.3 B	34	36.1		38.3 B	38	126	19
20		17.7 B	25	38.2		12.3 B	35	37.2		40.4 B	40	140	20
21		18.2 B	25	39.3		15.5 B	35	46.9		41.0 B	41	145	21
22		18.1 B	25	39.1		19.5 B	37	62.3		41.8 B	42	152	22
23		17.9 B	26	40.2		22.1 B	38	72.6		40.0 B	52	180	23
24		17.8 B	27	41.5	0.5	26.0 B	40 S	89.9		36.5 B	70	221	24
25		18.4 B	27	42.9		27.3 B	39	92.0		37.8 B	86	281	25
26		17.6 B	27	41.1		36.1 B	39	122		35.8 B	91	281	26
27		16.8 B	27	39.2		37.7 B	38	124	1.0	38.2 B	102 S	337	27
28		16.5 B	28	39.9		37.5 B	38	123		34.5 B	128	382	28
29		14.1 B	30	36.5						26.7	79	182	29
30		14.9 B	29	37.3					8.0	26.2	64 S	145	30
31		14.9 B	28	36.0					8.0	25.5	80 S	176	31
TOTAL		526.5		1 110.0		500.7		1 488.4		957.4		4 317.8	TOTAL
MEAN		17.0		35.8		17.9		53.2		30.9		139	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	6.5	25.3 A	67 S	146		22.9	65	129		13.9	49	58.8	1
2	9.0	24.6	64 S	136		22.7	69	135		13.9	49	58.8	2
3		24.6	64	136		22.1	69	132		13.7	49	58.0	3
4		25.9	79	177		21.5	66	123		14.2	49	60.1	4
5		26.8	86	199		21.4	59	109		15.1	54	70.5	5
6	8.0	28.1	99 S	240		21.0	55	99.8		14.9	57	73.4	6
7	6.0	29.1	119 S	299	13.0	20.7	52 S	93.0		15.0	62	80.4	7
8	6.0	30.0	106 S	275		20.8	52	93.5		14.8	66	84.4	8
9	7.0	29.4	95 S	241		19.9	52	89.4		14.8	67	85.7	9
10	8.0	27.2	86 S	202		19.5	52	87.6		14.6	75	94.6	10
11	9.0	25.9	58 S	130		19.5	49	82.6		13.9	91	109	11
12	6.0	25.0	68 S	147		19.6	49	83.0	18.0	13.7	98 S	116	12
13	6.0	24.9	62 S	133	14.0	19.0	47 S	77.2		13.7	100	118	13
14	5.0	25.0	53 S	114		17.9	45	69.6		14.2	103	126	14
15	6.0	25.0	64 S	138		17.3	45	67.3		14.6	111	140	15
16	10.0	24.5	72 S	152		16.7	45	64.9	17.5	14.7 A	121 S	154	16
17		23.7	76	156		15.6	44	59.3		14.5 E	119	149	17
18	10.0	23.5	72 S	146		14.6	41	51.7		14.5 E	106	133	18
19		22.9	65	129		14.0	38	46.0		14.4 E	95	118	19
20	7.0	21.8	59 S	111		13.6	37	43.5		14.2 E	102	125	20
21		21.3	58	107		13.1	33	37.4		15.1 E	158	206	21
22		20.8	58	104		12.5	30	32.4		17.0 E	162	238	22
23	10.0	20.4	57 S	100		12.3	31	32.9		18.1 E	148	231	23
24	9.0	20.0	58 S	100		12.8	32	35.4	21.0	18.2 E	142 S	223	24
25		19.8	60	103		13.4	32	37.0		19.2 E	136	226	25
26		19.6	66	112	18.0	13.8	32 S	38.2		19.6 E	131	222	26
27	11.0	20.2	74 S	129		14.7	37	47.0		19.5 E	129	217	27
28	10.0	20.4	63 S	111		14.2	41	50.3		18.5 E	120	192	28
29	14.0	21.0	57 S	103	17.0	13.8	43 S	51.3		18.8 E	116	188	29
30		22.0	62	118		13.4	46	53.3		18.2 E	111	175	30
31						13.4	47	54.4					31
TOTAL		718.7		4 494		527.7		2 206.0		469.5		4 130.7	TOTAL
MEAN		24.0		150		17.0		71.2		15.7		138	MEAN

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		17.4 E	105	158		7.79	54	36.3		14.7	41 S	52.1	1
2		17.7 E	105	161		7.29	50	31.5		24.7	183	391	2
3		17.5 E	102	154		7.60	50	32.8		26.6	178	409	3
4		16.7 E	92	133		7.82	49	33.1		20.1	117	203	4
5		15.7 E	87	118		8.57	57	42.2		16.5	95	135	5
6		14.6 E	84	106		8.96	77	59.6		15.1	79	103	6
7		13.4 E	81	93.8		9.94	87	74.7		13.1	70	79.2	7
8		13.1 E	78	88.3		9.27	84	67.3		11.7	64	64.7	8
9		11.8 E	74	75.4		8.39	79	57.3		11.2	64 S	61.9	9
10		11.2 E	68	65.8		8.05	74	51.5		10.4	60	53.9	10
11		11.5 E	64	63.6		7.77	68	45.7		9.78	58	49.0	11
12		11.1 E	60	57.5		7.37	64	40.8		9.35	56	45.2	12
13		11.2 E	56	54.2		7.12	62	38.1		8.82	54	41.2	13
14	23.0	10.9 A	56 S	52.7		6.99	61	36.8		8.52	51	37.5	14
15		10.5	57	51.7		6.80	61	35.8		8.40	49	35.6	15
16		10.5	55	49.9		6.71	61	35.4		8.28	45	32.2	16
17		9.83	57	48.4	20.0	6.48	61 S	34.2		8.74	44 S	33.2	17
18		9.53	56	46.1		6.40	62	34.3		9.31	41	33.0	18
19		9.27	55	44.1		6.27	63	34.1		8.89	42	32.3	19
20		8.89	53	40.7		6.25	64	34.6		8.50	41	30.1	20
21		8.64	52	38.8		6.24	65	35.0		8.44	42	30.6	21
22		8.54	49	36.2		6.20	66	35.4		8.35	41	29.6	22
23		8.30	49	35.1		6.69	68	39.3		8.25	39	27.8	23
24		8.38	47	34.0		8.78	98	74.3		8.18	39 S	27.6	24
25		8.02	46	31.9		12.1	142	148		8.24	38	27.1	25
26		7.72	44	29.3		24.4	234	493		9.62	36	29.9	26
27		7.57	43	28.1		27.1	200 S	468		9.63	33	27.5	27
28		7.38	43	27.4	20.0	22.2	132 S	253		11.4	31	30.5	28
29		7.39	42	26.8		17.7	95 S	145	5.0	13.3	28 S	32.2	29
30		7.80	48	32.3		14.3	73	90.2		13.3	26	29.9	30
31		8.39	70	50.7		13.9	55	66.1					31
TOTAL		340.45		2 032.8		311.45		2 703.4		351.40		2 214.8	TOTAL
MEAN		11.0		65.6		10.0		87.2		11.7		73.8	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		12.9	27	30.1		16.1	42	58.4		16.1 B	75	104	1
2		12.1	25	26.1		16.3	43	60.6		16.0 B	78	108	2
3		12.2	26	27.4		16.9	48	70.1		15.8 B	80	109	3
4		12.9	28	31.2		17.3	47	70.3		15.6 B	82	111	4
5		12.8	32	35.4		17.4	42	63.1		15.4 B	85	113	5
6		13.9	44	52.8		17.2	40	59.4		15.3 B	86	114	6
7		14.9	58	74.7		17.4	40	60.1		15.1 B	87	114	7
8	11.0	15.4	61 S	81.2		17.4	41	61.6		15.0 B	91	118	8
9		15.5	54	72.3		17.4	41	61.6		14.8 B	93	119	9
10		15.2	50	65.7		17.7	40	61.2		14.8 B	95	121	10
11		15.1	48	62.6		18.2	43	67.6		14.8 B	96	123	11
12		15.6	53	71.4		19.8	45	77.0		14.8 B	99	127	12
13		15.7	64	86.8	4.0	21.4	50 S	92.4		14.8 B	101	129	13
14		15.9	69	94.8		21.9	50	94.6		14.8 B	104	133	14
15		16.8	69	100		22.0	51	96.9		14.8 B	107	137	15
16		16.7	70	101		22.1	52	99.3		14.8 B	109	139	16
17		16.6	70	100		22.1	51	97.4		14.8 B	112	143	17
18		16.7	70	101		22.5	52	101		14.8 B	114	146	18
19		16.9	68	99.3		21.7 B	51	95.6		14.8 B	110	141	19
20		17.1	65	96.0		21.4 B	54	99.8		14.8 B	102	130	20
21		17.6	64	97.3		13.2 B	56	63.9	0.5	14.8 B	93 S	119	21
22		17.9	59	91.2		12.5 B	58	62.6		14.8 B	89	114	22
23		17.7	55	84.1		15.4 B	61	81.2		14.8 B	88	113	23
24		17.7	52	79.5		17.5 B	62	93.7		14.8 B	88	113	24
25		17.4 B	60	90.2		17.9 B	63	97.4		14.9 B	87	112	25
26		17.0 B	56	82.3		18.2 B	65	102		14.9 B	86	111	26
27		16.7	46	66.4		16.8 B	67	97.3		14.9 B	85	109	27
28		16.5	44	62.7		17.5 B	68	103		14.9 B	84	108	28
29		16.7	44	63.5		18.9 B	71	116		15.0 B	83	108	29
30		16.5	42	59.9		16.8 B	73	106		15.0 B	81	105	30
31		16.4	42	59.5						15.0 B	80	104	31
TOTAL		489.0		2 246.4		548.9		2 471.1		465.7		3 695	TOTAL
MEAN		15.8		72.5		18.3		82.4		15.0		119	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	62	
MAXIMUM DAILY	234	ON AUG 26
MINIMUM DAILY	20	ON JAN 02

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	90.7	
MAXIMUM DAILY	493	ON AUG 26
MINIMUM DAILY	25.7	ON JAN 03

TOTAL SUSPENDED SEDIMENT LOAD 33 110.4 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 54 N
LONG 98 53 56 W
DRAINAGE AREA 152 000 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS	TYPE OF SAMPLER
				0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000		
JAN 05	12:15	15.5 H	5					6	69	88	91	95	98	99	100		S	CORE

H - DAILY MEAN DISCHARGE

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		15.7 B				11.7 B				8.13 B			1
2		15.6 B				11.6 B				8.04 B			2
3		15.5 B				11.4 B				7.97 B			3
4		15.5 B				11.2 B				7.89 B			4
5		15.5 B				11.0 B				7.81 B			5
6		15.4 B				10.8 B				7.76 B			6
7		15.4 B				10.6 B				7.69 B			7
8		15.2 B				10.4 B				7.64 B			8
9		15.2 B				10.3 B				7.58 B			9
10		15.2 B				10.2 B				7.52 B			10
11		15.1 B				10.0 B				7.48 B			11
12		14.9 B				9.92 B				7.42 B			12
13		14.8 B				9.79 B				7.36 B			13
14		14.6 B				9.66 B				7.31 B			14
15		14.4 B				9.50 B				7.25 B			15
16		14.3 B				9.40 B				7.19 B			16
17		14.1 B				9.30 B				7.14 B			17
18		13.8 B				9.20 B				7.09 B			18
19		13.7 B				9.09 B				7.03 B			19
20		13.6 B				8.98 B				6.98 B			20
21		13.4 B				8.88 B				6.92 B			21
22		13.3 B				8.78 B				6.88 B			22
23		13.1 B				8.70 B				6.83 B			23
24		13.0 B				8.59 B				6.77 B			24
25		12.9 B				8.51 B				6.73 B			25
26		12.7 B				8.42 B				6.66 B			26
27		12.6 B				8.35 B				6.61 B			27
28		12.4 B				8.27 B				6.58 B			28
29		12.2 B								6.54 B			29
30		12.1 B								6.48 B			30
31		11.9 B								6.43 B			31
TOTAL		437.1				272.54				223.71			TOTAL
MEAN		14.1				9.73				7.22			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		6.40 B				6.25 B				42.4	32	117	1
2		6.34 B				7.74 B				41.6	33 S	119	2
3		6.29 B				14.0 B				40.6	30	105	3
4		6.26 B				29.3 B				39.6	27 S	92.4	4
5		6.21 B				65.7				39.2	25	84.7	5
6		6.17 B				93.2				39.8	24 S	82.5	6
7		6.12 B				128				40.6	30 S	105	7
8		6.10 B				148				41.5	34	122	8
9		6.08 B				156				43.0	36 S	134	9
10		6.01 B				155				44.2	36	137	10
11		5.98 B				144				44.0	33 S	125	11
12		5.94 B				135				43.3	26	97.3	12
13		5.91 B				130				42.1	24 S	87.3	13
14		5.87 B				127				40.4	45 S	157	14
15		5.83 B				122				38.9	44	148	15
16		5.80 B				115				37.5	39 S	126	16
17		5.77 B				106				37.0	34	109	17
18		5.74 B				97.5				36.3	31	97.2	18
19		5.70 B				90.5				34.9	30	90.5	19
20		5.68 B				83.9				34.9	31	93.5	20
21		5.66 B				78.7				34.9	33	99.5	21
22		5.63 B				73.3	51 S	323		34.6	33	98.7	22
23		5.61 B				67.1	50	290		34.0	31	91.1	23
24		5.58 B				62.2	48 S	258		34.1	30	88.4	24
25		5.56 B				59.0	46	234		34.2	31	91.6	25
26		5.54 B				56.5	44 S	215		35.0	32	96.8	26
27		5.53 B				54.1	42	196		36.2	35	109	27
28		5.51 B				51.5	40 S	178		36.4	36	113	28
29		5.51 B				48.5	41	172		35.9	33	102	29
30		5.57 B				45.8	40 S	158		35.1	30	91.0	30
31						43.9	33 S	125					31
TOTAL		175.90				2 594.69				1 152.2		3 210.5	TOTAL
MEAN		5.86				83.7				38.4		107	MEAN

MANITOBA

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		34.9	29	87.4		26.2	17	38.5		21.5	31 S	57.6	1
2		35.5	28	85.9		25.7	17	37.7		21.2	28	51.3	2
3		35.6	29	89.2		26.1	18	40.6		21.1	24 S	43.8	3
4		35.9	30	93.1		27.1	21 S	49.2		20.2	30	52.4	4
5		35.4	29	88.7		27.7	24	57.4		20.2	39 S	68.1	5
6		34.7	28	83.9		27.8	25 S	60.0		19.3	34 S	56.7	6
7		34.0	27	79.3		28.2	24	58.5		18.6	31	49.8	7
8		32.2	25	69.6		28.0	23 S	55.6		17.3	32 S	47.8	8
9		31.8	26	71.4		27.4	24 S	56.8		16.6	34	48.8	9
10		32.9	29	82.4		26.7	24	55.4		15.9	37 S	50.8	10
11		32.7	28	79.1		26.7	22 S	50.8		15.1	42	54.8	11
12		31.9	25	68.9		26.1	21	47.4		14.1	43 S	52.4	12
13		31.0	25	67.0		25.5	21 S	46.3		13.1	37 S	41.9	13
14		30.0	24	62.2		25.6	22	48.7		12.6	32	34.8	14
15		29.5	22	56.1		24.9	23 S	49.5		11.8	30 S	30.6	15
16		29.1	21	52.8		24.7	21 S	44.8		11.1	31	29.7	16
17		28.1	22	53.4		24.9	21	45.2		10.5	32 S	29.0	17
18		27.8	21	50.4		24.6	21 S	44.6		10.2	32	28.2	18
19		28.3	20	48.9		24.6	21	44.6		9.64	30 S	25.0	19
20		27.8	20	48.0		24.3	21 S	44.1		8.96	25	19.4	20
21		27.3	20	47.2		24.1	22	45.8		8.36	21	15.2	21
22		27.0	20	46.7		24.3	23 S	48.3		8.04	21 S	14.6	22
23		27.7	21	50.3		24.5	24 S	50.8		7.79	27	18.2	23
24		28.4	22	54.0		24.3	23	48.3		7.76	34 S	22.8	24
25		27.7	21	50.3		24.1	22 S	45.8		7.85	35	23.7	25
26		27.5	21	49.9		24.1	22	45.8		8.18	31 S	21.9	26
27		27.3	21	49.5		23.9	23 S	47.5		8.45	29	21.2	27
28		27.3	22	51.9		23.4	22	44.5		8.62	31	23.1	28
29		27.9	23	55.4		23.7	21 S	43.0		8.66	32	23.9	29
30		27.5	24	57.0		23.5	23 S	46.7		8.69	32	24.0	30
31		27.1	21	49.2		22.5	28	54.4					31
TOTAL		981.8		1 979.1		785.2		1 496.6		391.40		1 081.5	TOTAL
MEAN		30.4		63.8		25.3		48.3		13.0		36.1	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		8.69				29.9				16.1 B			1
2		8.62				31.5				15.9 B			2
3		8.72				31.1				15.5 B			3
4		8.74				30.1				15.4 B			4
5		8.75				29.2				15.1 B			5
6		8.70				28.2				14.8 B			6
7		8.59				27.6				14.6 B			7
8		8.47				26.8				14.3 B			8
9		8.44				26.1				14.1 B			9
10		8.81				25.3				13.9 B			10
11		9.50				24.5 B				13.7 B			11
12		10.5				23.9 B				13.6 B			12
13		14.9				23.3 B				13.5 B			13
14		24.2				22.7 B				13.3 B			14
15		33.0				22.2 B				13.1 B			15
16		37.6				21.8 B				13.0 B			16
17		41.7				21.3 B				12.9 B			17
18		44.2				20.9 B				12.8 B			18
19		43.8				20.4 B				12.7 B			19
20		41.3				20.0 B				12.6 B			20
21		36.5				19.6 B				12.5 B			21
22		35.1				19.2 B				12.4 B			22
23		32.4				18.8 B				12.3 B			23
24		30.9				18.5 B				12.1 B			24
25		28.5				18.1 B				12.1 B			25
26		26.7				17.8 B				12.0 B			26
27		24.9				17.4 B				12.0 B			27
28		23.5				17.1 B				11.9 B			28
29		22.6				16.8 B				11.8 B			29
30		22.9				16.4 B				11.8 B			30
31		26.5								11.7 B			31
TOTAL		697.73				686.5				413.5			TOTAL
MEAN		22.5				22.9				13.3			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 27 50 N
LONG 99 06 00 W
DRAINAGE AREA 6 660 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.015 B	5	0.01	1
2										0.018 B	5	0.01	2
3										0.021 B	5	0.01	3
4										0.024 B	5	0.01	4
5										0.026 B	5	0.01	5
6										0.028 B	5	0.01	6
7										0.030 B	5	0.01	7
8										0.035 B	5	0.02	8
9										0.045 B	5	0.02	9
10										0.060 B	5	0.03	10
11										0.100 B	5	0.04	11
12										0.080 B	5	0.03	12
13										0.040 B	5	0.02	13
14										0.035 B	5	0.02	14
15										0.070 B	5	0.03	15
16										0.080 B	5	0.03	16
17										0.040 B	5	0.02	17
18										0.030 B	5	0.01	18
19										0.027 B	5	0.01	19
20										0.023 B	5	0.01	20
21										0.035 B	10	0.03	21
22										0.060 B	15	0.08	22
23										0.078 B	20	0.13	23
24										0.160 B	25	0.35	24
25										0.150 B	30	0.39	25
26										0.131 B	35	0.40	26
27										0.400 B	40	1.38	27
28										0.460 B	50	1.99	28
29										0.520 B	70	3.14	29
30									1.0	0.580 B	101 S	5.06	30
31										0.600 B	100	5.18	31
TOTAL										4.001		18.49	TOTAL
MEAN										0.129		0.60	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.0	0.590 B	97 S	4.94		1.07	30	2.77	18.0	2.15	194 S	36.0	1
2	1.0	0.550 B	89 S	4.23	14.0	0.908	24 S	1.88	19.0	1.47	120 S	15.2	2
3	1.0	0.540 B	88 S	4.11		0.788	22	1.50	20.0	1.09	96 S	9.04	3
4	1.0	0.560 B	93 S	4.50	11.0	0.673	21 S	1.22	17.0	0.860	61 S	4.53	4
5	1.0	0.600 B	86 S	4.46	15.0	0.662	20 S	1.14	20.0	0.810	58 S	4.06	5
6	3.0	0.660 B	304 S	17.3	16.0	0.580	24 S	1.20	21.0	0.614	66 S	3.50	6
7	2.0	0.720 B	302 S	18.8	17.0	0.520	30 S	1.35		0.510	60	2.64	7
8	3.0	0.900 B	220 S	17.1	10.0	0.476	41 S	1.69	18.0	0.455	55 S	2.16	8
9	3.0	1.00 B	229 S	19.8		0.434	48	1.80	18.0	0.460	58 S	2.31	9
10	1.0	1.05 B	140 S	12.7		0.384	48	1.59		0.471	41	1.67	10
11		1.02 B	115	10.1		0.366	49	1.55	21.0	0.435	26 S	0.98	11
12	4.0	0.980 B	123 S	10.4		0.360	50	1.56		0.398	22	0.76	12
13		0.784 B	100 S	6.77		0.330	51	1.45		0.367	20	0.63	13
14	4.0	0.760 B	51 S	3.35		0.318	52	1.43	14.0	0.456	21 S	0.83	14
15	10.0	0.913	94 S	7.42		0.295	52	1.33	15.0	6.00	1 920 S	995	15
16	8.0	1.25	80 S	8.64		0.284	53	1.30	16.0	6.51	1 180 S	664	16
17		1.55	60	8.04		0.278	53	1.27	16.0	4.17	555 S	200	17
18	4.0	1.22	57 S	6.01		0.266	53	1.22	16.0	6.02	1 000 S	520	18
19	6.0	0.908	38 S	2.98		0.248	53	1.14		3.78	684	223	19
20	7.0	0.910	34 S	2.67	21.0	0.245	53 S	1.12		2.22	338	64.8	20
21	6.0	0.941	43 S	3.50		0.238	51	1.05	19.0	1.36	101 S	11.9	21
22	4.0	0.906	50 S	3.91		0.913	301	23.7	19.0	1.09	53 S	4.99	22
23	6.0	0.724	41 S	2.56	6.0	5.35	839 S	388	19.0	1.25	108 S	11.7	23
24		0.596	25	1.29	7.5	5.51	687 S	327	16.5	4.19	987 S	357	24
25	9.0	0.775	19 S	1.27	13.0	4.25	408 S	150	20.0	2.96	279 S	71.4	25
26		0.813	20	1.40	16.5	2.98	241 S	62.1		1.62	121	16.9	26
27	12.0	0.733	23 S	1.46	19.0	1.94	125 S	21.0		0.942	57	4.64	27
28	13.0	0.657	23 S	1.31	18.0	1.41	51 S	6.21	18.0	0.777	31 S	2.08	28
29	10.0	0.659	28 S	1.59	13.0	5.85	1 830 S	925	21.5	0.708	29 S	1.77	29
30	8.0	0.715	32 S	1.98	13.0	5.78	1 150 S	574	25.5	0.562	28 S	1.36	30
31					16.5	3.30	389 S	111					31
TOTAL		24.984		194.59		47.006		2 618.57		54.705		3 234.85	TOTAL
MEAN		0.833		6.49		1.52		84.5		1.82		108	MEAN

MANITOBA

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	21.0	0.417	28 S	1.01		0.264	5	0.11		0.050	6	0.03	1
2	26.0	0.381	27 S	0.89	26.0	0.255	6 S	0.13		0.025	6	0.01	2
3	25.0	0.331	26 S	0.74	24.0	0.286	5 S	0.12		0.020	6	0.01	3
4		0.295	26	0.66	24.0	0.263	6 S	0.14		0.037	6	0.02	4
5		0.266	25	0.57	24.0	0.347	10 S	0.30		0.044	6	0.02	5
6	31.0	0.240	22 S	0.46		0.665	15	0.86		0.051	6	0.03	6
7		0.224	19	0.37		0.451	14	0.55		0.050	6	0.03	7
8	22.0	0.221	16 S	0.31		0.362	13	0.41	22.0	0.059	6 S	0.03	8
9	23.0	0.203	10 S	0.18		0.316	12	0.33		0.041	6	0.02	9
10	27.0	0.207	6 S	0.11		0.298	11	0.28		0.034	6	0.02	10
11		0.197	5	0.09		0.313	10	0.27		0.032	5 S	0.01	11
12		0.194	5	0.08		0.279	9	0.22		0.026	5	0.01	12
13		0.183	5	0.08		0.303	9	0.24		0.018	5	0.01	13
14		0.174	6	0.09		0.274	9	0.21		0.018	6	0.01	14
15		0.304	5	0.13		0.272	9	0.21		0.016	11	0.02	15
16		0.537	6	0.28		0.226	8	0.16		0.004	10	0	16
17		0.347	6	0.18		0.200	8	0.14	16.0	0.001	9 S	0	17
18		0.268	6	0.14		0.169	8	0.12		0	9	0	18
19	25.0	0.234	5 S	0.10		0.160	8	0.11		0	8	0	19
20		0.208	7	0.13		0.148	8	0.10		0	8	0	20
21		0.197	9 S	0.15		0.139	7	0.08		0	8	0	21
22		0.181	8 S	0.13	25.0	0.147	7 S	0.09		0	7	0	22
23		0.189	6 S	0.10		0.150	7	0.09		0	7	0	23
24		0.215	5 S	0.09		0.181	6	0.09		0	6	0	24
25		0.223	3 S	0.06	24.0	0.176	5 S	0.08		0.007	6	0	25
26		0.196	4 S	0.07		0.130	5	0.06		0.118	17	0.17	26
27		0.179	4 S	0.06		0.107	5	0.05		0.201	14	0.24	27
28		0.157	5 S	0.07	25.0	0.105	6 S	0.05		0.141	8	0.10	28
29		0.142	5	0.06		0.081	6	0.04	9.0	0.118	7 S	0.07	29
30	23.0	0.136	5 S	0.06		0.074	6	0.04		0.134	7	0.08	30
31		0.204	5	0.09		0.083	6	0.04					31
TOTAL		7.450		7.54		7.224		5.72		1.245		0.98	TOTAL
MEAN		0.240		0.24		0.233		0.18		0.041		0.03	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	0.189	6 S	0.10									1
2		0.137	5	0.06									2
3		0.115	5	0.05									3
4		0.111	5	0.05									4
5	13.0	0.117	5 S	0.05									5
6		0.120	6	0.06									6
7		0.110	8	0.08									7
8		0.099	9 S	0.08									8
9		0.098	6 S	0.05									9
10		0.099	5	0.04									10
11		0.098	5	0.04									11
12		0.103	5	0.04									12
13		0.105	5	0.05									13
14		0.099	5	0.04									14
15		0.096	5	0.04									15
16		0.095	5	0.04									16
17		0.096	5	0.04									17
18		0.122	5	0.05									18
19		0.130	6	0.07									19
20		0.119	5	0.05									20
21		0.114	6	0.06									21
22		0.115	5	0.05									22
23		0.116	5	0.05									23
24		0.117	5	0.05									24
25		0.118	6	0.06									25
26		0.117	6	0.06									26
27		0.120	6	0.06									27
28		0.126	6	0.07									28
29		0.139	6	0.07									29
30		0.139	6	0.07									30
31		0.174	6	0.09									31
TOTAL		3.653		1.77									TOTAL
MEAN		0.118		0.06									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	469	
MAXIMUM DAILY	1 920	ON JUN 15
MINIMUM DAILY	3	ON JUL 25

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	24.8	
MAXIMUM DAILY	995	ON JUN 15
MINIMUM DAILY	0	ON SEP 16

TOTAL SUSPENDED SEDIMENT LOAD 6 082.47

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 08 30 N
LONG 99 55 20 W
DRAINAGE AREA 311 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 28	12:30	5.51H	7.0	661 K	53	59	68	94	98	99	100					BNW
MAY 29	10:00	5.85H	13.0	2 210 K	22	27	40	80	95	99	100					BNW
JUN 15	10:00	6.00H	14.0	3 890 K	28	37	55	78	95	98	99	100				BNW
JUN 24	10:00	4.19H	19.0	611 K	44	53	73	91	97	98	99	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.005 B	0	0	1
2										0.005 B	0	0	2
3										0.005 B	0	0	3
4										0.005 B	0	0	4
5										0.005 B	0	0	5
6										0.005 B	0	0	6
7										0.005 B	0	0	7
8										0.005 B	0	0	8
9										0.005 B	0	0	9
10										0.005 B	0	0	10
11										0.010 B	0	0	11
12										0.025 B	0	0	12
13										0.028 B	0	0	13
14										0.030 B	0	0	14
15										0.027 B	0	0	15
16										0.025 B	0	0	16
17										0.010 B	0	0	17
18										0.010 B	0	0	18
19										0.009 B	0	0	19
20										0.009 B	0	0	20
21										0.008 B	0	0	21
22										0.008 B	0	0	22
23										0.050 B	0	0	23
24										0.200 B	3	0.05	24
25										0.169 B	3	0.04	25
26										0.160 B	4	0.06	26
27										0.150 B	5	0.06	27
28										0.180 B	5	0.08	28
29										0.169	5	0.07	29
30									4.0	0.145	6 S	0.08	30
31										0.133	7	0.08	31
TOTAL										1.605		0.52	TOTAL
MEAN										0.052		0.02	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.115	11	0.11		0.023	0	0		0.043	0	0	1
2	3.0	0.129	13 S	0.14		0.022	0	0		0.035	0	0	2
3		0.121	12	0.13		0.020	0	0		0.023	0	0	3
4		0.119	12	0.12		0.022	0	0		0.023	0	0	4
5		0.104	11	0.10		0.022	0	0		0.028	0	0	5
6	5.0	0.093	10 S	0.08		0.022	0	0		0.025	0	0	6
7		0.079	10	0.07		0.026	0	0		0.023	0	0	7
8		0.059	11	0.06		0.024	0	0		0.022	0	0	8
9	5.0	0.043	11 S	0.04		0.023	0	0		0.022	0	0	9
10		0.032	9	0.02		0.022	0	0		0.019	0	0	10
11		0.023	8	0.02		0.020	0	0		0.016	0	0	11
12		0.023	6	0.01		0.021	0	0		0.011	0	0	12
13		0.025	5	0.01		0.022	0	0		0.010	0	0	13
14		0.022	4	0.01		0.021	0	0		0.042	5 E	0.02	14
15		0.018	3 S	0		0.019	0	0		0.224	13 E	0.25	15
16		0.015	2	0		0.019	0	0		0.406	22 E	0.77	16
17		0.018	1	0		0.018	0	0		0.733	30 E	1.90	17
18		0.018	0	0		0.016	0	0		1.06	30 E	2.75	18
19		0.020	0	0		0.012	0	0		0.781	27 E	1.82	19
20		0.016	0	0		0.008	0	0		0.502	25 E	1.08	20
21		0.015	0	0		0.007	0	0		0.355	22 E	0.67	21
22		0.016	0	0		0.010	0	0		1.27	50 E	5.49	22
23		0.015	0	0		0.019	0	0		1.62	53 E	7.42	23
24		0.014	0	0		0.040	0	0		3.94	138 E	47.0	24
25		0.017	0	0		0.044	0	0		2.31	101 E	20.2	25
26		0.019	0	0		0.035	0	0		1.29	66 E	7.36	26
27		0.020	0	0		0.026	0	0		0.647	44 E	2.46	27
28		0.019	0	0		0.023	0	0		0.380	33 E	1.08	28
29		0.017	0	0		0.031	0	0		0.345	27 E	0.80	29
30		0.021	0	0		0.045	0	0		0.229	24 E	0.47	30
31						0.049	0	0					31
TOTAL		1.265		0.92		0.731		0		16.434		101.54	TOTAL
MEAN		0.042		0.03		0.024		0		0.548		3.38	MEAN

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.182	24 E	0.38		0.004	0	0		0.004	0	0	1
2		2.41	81 E	16.9		0.004	0	0		0.004	0	0	2
3		1.72	60 E	8.92		0.003	0	0		0.003	0	0	3
4		0.970	37 E	3.10		0.005	0	0		0.002	0	0	4
5		0.543	27 E	1.27		0.009	0	0		0.002	0	0	5
6		0.308	23 E	0.61		0.007	0	0		0.002	0	0	6
7		0.198	18 E	0.31		0.005	0	0		0.001	0	0	7
8		0.114	13 E	0.13		0.004	0	0		0.001	0	0	8
9		0.070	10 E	0.06		0.004	0	0		0	0	0	9
10		0.036	6 E	0.02		0.007	0	0		0	0	0	10
11		0.022	2 E	0		0.007	0	0		0	0	0	11
12		0.016	0	0		0.005	0	0		0	0	0	12
13		0.011	0	0		0.004	0	0		0	0	0	13
14		0.010	0	0		0.004	0	0		0	0	0	14
15		0.012	0	0		0.003	0	0		0	0	0	15
16		0.009	0	0		0.002	0	0		0	0	0	16
17		0.009	0	0		0.002	0	0		0	0	0	17
18		0.009	0	0		0.003	0	0		0	0	0	18
19		0.010	0	0		0.005	0	0		0	0	0	19
20		0.009	0	0		0.005	0	0		0	0	0	20
21		0.008	0	0		0.004	0	0		0	0	0	21
22		0.007	0	0		0.004	0	0		0	0	0	22
23		0.007	0	0		0.003	0	0		0	0	0	23
24		0.007	0	0		0.003	0	0		0	0	0	24
25		0.006	0	0		0.005	0	0		0	0	0	25
26		0.005	0	0		0.006	0	0		0.003	0	0	26
27		0.004	0	0		0.005	0	0		0.002	0	0	27
28		0.004	0	0		0.003	0	0		0	0	0	28
29		0.003	0	0		0.003	0	0		0	0	0	29
30		0.004	0	0		0.004	0	0		0.002	0	0	30
31		0.004	0	0		0.004	0	0					31
TOTAL		6.727		31.70		0.136		0		0.026		0	TOTAL
MEAN		0.217		1.02		0.004		0		0.001		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.002	0	0									1
2		0.003	0	0									2
3		0.003	0	0									3
4		0.002	0	0									4
5		0.002	0	0									5
6		0.001	0	0									6
7		0.001	0	0									7
8		0.001	0	0									8
9		0.001	0	0									9
10		0.001	0	0									10
11		0.001	0	0									11
12		0.002	0	0									12
13		0.002	0	0									13
14		0.002	0	0									14
15		0.002	0	0									15
16		0.002	0	0									16
17		0.002	0	0									17
18		0.001	0	0									18
19		0.001	0	0									19
20		0.001	0	0									20
21		0.001	0	0									21
22		0.001	0	0									22
23		0.001	0	0									23
24		0.001	0	0									24
25		0.001	0	0									25
26		0.001	0	0									26
27		0.002	0	0									27
28		0.002	0	0									28
29		0.003	0	0									29
30		0.003	0	0									30
31		0.004	0	0									31
TOTAL		0.053		0									TOTAL
MEAN		0.002		0									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MEAN	58	MEAN	0.55
MAXIMUM DAILY	138 ON JUN 24	MAXIMUM DAILY	47.0 ON JUN 24
MINIMUM DAILY	0 ON MAR 01	MINIMUM DAILY	0 ON MAR 01

TOTAL SUSPENDED SEDIMENT LOAD 134.68 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 25 55 N
LONG 100 01 00 W
DRAINAGE AREA 269 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		7.65 B	20	13.2		7.56 B	20	13.1		6.68 B	26	15.0	1
2		7.65 B	20	13.2		7.56 B	20	13.1		6.59 B	26	14.8	2
3		7.65 B	20	13.2		7.56 B	20	13.1		6.11 B	26 S	13.7	3
4		7.65 B	20	13.2		7.56 B	20	13.1		4.98	25	10.8	4
5		7.65 B	20	13.2		7.56 B	19	12.4		3.59	24	7.44	5
6		7.65 B	20	13.2		7.49 B	19	12.3		3.63	24	7.53	6
7		7.65 B	20	13.2		7.49 B	21	13.6		3.62	24	7.51	7
8		7.65 B	20	13.2		7.46 B	25	16.1		3.60	24	7.46	8
9		7.65 B	20	13.2		7.46 B	25	16.1		3.61	24	7.49	9
10		7.65 B	20	13.2		7.43 B	26	16.7		3.64	24	7.55	10
11		7.64 B	20	13.2		7.43 B	26	16.7		3.63	23	7.21	11
12		7.64 B	20	13.2		7.40 B	26	16.6		2.28	21	4.14	12
13		7.64 B	20	13.2		7.34 B	26	16.5		0.728	20	1.26	13
14		7.64 B	20	13.2		7.28 B	26	16.4		0.710	20	1.23	14
15		7.64 B	20	13.2		7.18 B	26	16.1		0.666	20	1.15	15
16		7.64 B	20	13.2		7.12 B	26	16.0		0.651	20	1.12	16
17		7.64 B	20	13.2		7.23	26	16.2		0.622	20	1.07	17
18		7.63 B	20	13.2		7.09	26	15.9		0.664	20	1.15	18
19		7.63 B	20	13.2		7.28	27	17.0		0.732	20	1.26	19
20		7.63 B	20	13.2		7.26	27	16.9		0.733	20	1.27	20
21		7.63 B	20	13.2		7.40	27	17.3		0.706	20	1.22	21
22		7.63 B	20	13.2		7.45	26	16.7		0.706	20	1.22	22
23		7.63 B	20	13.2		7.36	27	17.2		0.702	20	1.21	23
24		7.62 B	20	13.2		7.15	26	16.1		0.690	20	1.19	24
25		7.62 B	20	13.2		7.35	26	16.5		0.669	20	1.16	25
26		7.62 B	20	13.2		7.26	26	16.3		0.807	20	1.39	26
27		7.62 B	20	13.2		7.03	26	15.8		0.823	20	1.42	27
28		7.62 B	20	13.2		6.97 B	26	15.7		0.901	20	1.56	28
29		7.62 B	20	13.2						0.884	20	1.53	29
30		7.59 B	20	13.1					4.0	0.847	20 S	1.46	30
31		7.59 B	20	13.1						0.855	21	1.55	31
TOTAL		236.66		409.0		205.71		435.5		66.056		135.05	TOTAL
MEAN		7.63		13.2		7.35		15.6		2.13		4.36	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.912	22	1.73		0.166	12	0.17		0.154	10	0.13	1
2	4.0	0.915	23 S	1.82		0.158	12	0.16		0.169	11	0.16	2
3		0.942	22	1.79		0.138	13	0.16		0.165	10	0.14	3
4		0.976	20	1.69		0.118	13	0.13		0.149	10	0.13	4
5		1.01	18	1.57		0.096	13	0.11		0.116	10	0.10	5
6	4.0	1.07	18 S	1.66		0.093	12	0.10		0.148	10	0.13	6
7		1.18	17	1.73		0.092	12	0.10		0.129	11	0.12	7
8		1.14	17	1.67		0.056	13	0.06		0.152	11	0.14	8
9	4.0	1.03	16 S	1.42		0.072	14	0.09		0.163	11	0.15	9
10		1.01	16	1.40	9.0	0.118	18 S	0.18		0.147	11	0.14	10
11		1.14	16	1.58		0.100	17	0.15		0.154	11	0.15	11
12		1.26	16	1.74		0.103	13	0.12		0.159	12	0.16	12
13		1.18	15	1.53		0.095	12	0.10		0.182	12	0.19	13
14		1.35	14	1.63		0.104	11	0.10		0.230	13	0.26	14
15		1.42	14	1.72	12.0	0.112	10 S	0.10		0.259	13	0.29	15
16		1.39	13 S	1.56		0.112	10	0.10		0.218	13	0.24	16
17		0.982	12	1.02		0.121	10	0.10		0.243	14	0.29	17
18		1.46	14	1.77		0.139	10	0.12		0.269	14	0.33	18
19		1.56	14	1.89		0.127	10	0.11		0.330	14	0.40	19
20		1.84	14	2.23		0.131	10	0.11		0.250	14	0.30	20
21		1.49	13	1.67		0.122	10	0.11		0.206	14	0.25	21
22		0.861	13	0.97	12.0	0.126	10 S	0.11		0.199	15	0.26	22
23		1.46	15	1.89		0.115	10	0.10		0.262	16	0.36	23
24	6.0	1.75	15 S	2.27		0.117	10	0.10		0.647	20 S	1.12	24
25		1.97	14	2.38		0.154	10	0.13		0.460	19	0.76	25
26		1.53	14	1.85		0.158	10	0.14		0.290	19	0.48	26
27		0.836	13	0.94		0.145	10	0.13		0.226	18	0.35	27
28		0.205	12	0.21		0.132	10	0.11		0.193	18	0.30	28
29		0.156	12	0.16		0.134	10	0.12		0.190	17	0.28	29
30	9.0	0.140	12 S	0.15		0.155	10	0.13		0.668	19	1.10	30
31						0.169	10	0.15					31
TOTAL		34.165		45.64		3.778		3.70		7.127		9.21	TOTAL
MEAN		1.14		1.52		0.122		0.12		0.237		0.31	MEAN

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.472	19	0.77		0.071	16	0.10		0.255	16	0.35	1
2		0.398	17	0.58		0.103	16	0.14		1.24	24	2.57	2
3		0.249	16	0.34		0.145	16	0.20		0.172	17	0.25	3
4		0.183	15	0.24		0.224	17	0.33		0.138	16	0.19	4
5		0.153	15	0.20		0.318	19	0.52		0.173	16	0.24	5
6		0.192	14	0.23		0.240	19	0.39		0.105	16	0.15	6
7		0.181	14	0.22		0.197	18	0.31		0.097	16	0.13	7
8		0.159	13	0.18		0.170	18	0.26		0.119	16	0.16	8
9		0.158	13	0.18		0.160	18	0.25		0.140	16	0.19	9
10		0.178	13	0.20		0.175	17	0.26		0.163	16	0.23	10
11		0.182	13	0.20		0.161	17	0.24		0.166	16	0.23	11
12		0.171	13	0.19		0.157	16	0.22		0.159	16	0.22	12
13		0.182	12	0.19		0.154	16	0.21		0.136	16	0.19	13
14		0.157	12	0.16		0.140	16	0.19		0.136	16	0.19	14
15		0.224	12	0.23		0.146	16	0.20		0.135	16	0.19	15
16	23.0	0.213	12 S	0.22		0.167	16	0.23		0.144	16	0.20	16
17		0.189	12	0.20		0.196	16	0.27		0.138	16	0.19	17
18		0.195	12	0.20		0.231	16	0.32		0.137	16	0.19	18
19		0.209	12	0.22		0.233	16	0.32		0.145	16	0.20	19
20		0.134	12	0.14		0.204	16	0.28		0.189	16	0.26	20
21		0.153	12	0.16		0.241	16	0.33		0.198	16	0.27	21
22		0.172	13	0.19		0.268	16	0.37		0.192	16	0.27	22
23		0.193	13	0.22		0.245	16	0.34		0.166	16	0.23	23
24		0.133	13	0.15		0.246	16	0.34		0.151	17	0.22	24
25		0.119	14	0.14		0.253	16	0.35		0.158	17	0.23	25
26		0.115	14	0.14		0.219	16	0.30		0.147	17	0.22	26
27		0.111	15	0.14		0.203	16	0.28		0.099	17	0.15	27
28		0.103	16	0.14		0.210	16	0.29		0.175	17	0.26	28
29		0.105	16 S	0.15		0.203	16	0.28		0.170	17	0.25	29
30		0.177	17	0.26		0.201	16	0.28		0.165	17	0.24	30
31		0.092	16	0.13		0.208	16	0.29					31
TOTAL		5.652		6.91		6.089		8.69		5.708		8.86	TOTAL
MEAN		0.182		0.22		0.196		0.28		0.190		0.30	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.148	17	0.22		0.113 E	7 E	0.07		3.01	8	2.08	1
2		0.999	29	2.50		0.110 E	7 E	0.07		3.07	8	2.12	2
3		0.236	23	0.47		0.106 E	7 E	0.06		2.98	8	2.06	3
4		0.130	17	0.19		0.103 A	6 S	0.05		3.05	8	2.11	4
5		0.126	17	0.19		0.088	6	0.05		2.98	8	2.06	5
6		0.136 A	17	0.20		0.095	6	0.05		2.92	8	2.02	6
7		0.162 A	17 S	0.24		0.091	6	0.05		2.89	8	2.00	7
8		0.157	17	0.23		0.105	6	0.05		2.88	8 S	1.99	8
9		0.150	16	0.21		0.133	5	0.06		2.93	8	2.03	9
10		0.146	15	0.19		0.130	5	0.06		6.24	8	4.31	10
11		0.139	15	0.18		0.124	6	0.06		7.24	8	5.00	11
12		0.171	14	0.21		0.124	7	0.07		3.04	8	2.10	12
13		0.141	13 E	0.16		0.119	7	0.07		2.99	8	2.07	13
14		0.129 A	13 E	0.14		0.120	7	0.07		2.90	8	2.00	14
15		0.123 E	13 E	0.14		0.121	7	0.07		2.87	8	1.98	15
16		0.116 E	12 E	0.12		0.111	7	0.07		2.86	8	1.98	16
17		0.042 E	12 E	0.04		0.104	7	0.06		6.81	8	4.71	17
18		0.081 E	12 E	0.08		0.108	7	0.07		10.8	8	7.46	18
19		0.087 E	11 E	0.08		0.094	7	0.06		10.4	8	7.19	19
20		0.094 E	11 E	0.09		0.100	7	0.06		10.2	8	7.05	20
21		0.094 E	11 E	0.09		0.105	7	0.06		9.58	8	6.62	21
22		0.074 E	10 E	0.06		0.109	7	0.07		9.25	8	6.39	22
23		0.103 E	10 E	0.09		0.105	7	0.06		9.07 B	8	6.27	23
24		0.094 E	10 E	0.08		1.33	8	0.92		8.97 B	8	6.20	24
25		0.126 E	9 E	0.10		3.13	8	2.16		8.87 B	8	6.13	25
26		0.123 E	9 E	0.10		3.05	8	2.11		8.78 B	8	6.07	26
27		0.123 E	9 E	0.10		3.09	8	2.14		8.68 B	8	6.00	27
28		0.119 E	8 E	0.08		3.15	8	2.18		8.62 B	8	5.96	28
29		0.119 E	8 E	0.08		3.23	8	2.23		8.56 B	8	5.92	29
30		0.116 E	8 E	0.08		3.06	8	2.12		8.46 B	8	5.85	30
31		0.116 E	7 E	0.07						8.37 B	8	5.79	31
TOTAL		4.720		6.81		22.558		15.28		190.27		131.52	TOTAL
MEAN		0.152		0.22		0.752		0.51		6.14		4.24	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 1 216.17 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	18	
MAXIMUM DAILY	29	ON OCT 02
MINIMUM DAILY	5	ON NOV 09

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	3.33	
MAXIMUM DAILY	17.3	ON FEB 21
MINIMUM DAILY	0.04	ON OCT 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 27 00 N
LONG 99 58 00 W
DRAINAGE AREA 8 700 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.250 B	5	0.11	1
2									0.5	0.255 B	5	0.11	2
3										0.265 B	5	0.11	3
4										0.275 B	5	0.12	4
5										0.284 B	5	0.12	5
6										0.295 B	5	0.13	6
7										0.305 B	5	0.13	7
8										0.320 B	5	0.14	8
9										0.335 B	5	0.14	9
10										0.350 B	5	0.15	10
11										0.360 B	5	0.16	11
12										0.330 B	5	0.14	12
13										0.250 B	5	0.11	13
14										0.230 B	5	0.10	14
15										0.220 B	5	0.10	15
16										0.270 B	5	0.12	16
17										0.300 B	5	0.13	17
18										0.130 B	5	0.06	18
19										0.135 B	5	0.06	19
20										0.137 B	5	0.06	20
21										0.143 B	5	0.06	21
22										0.150 B	5	0.06	22
23										0.158 B	5	0.07	23
24										0.230 B	5	0.10	24
25										0.320 B	5	0.14	25
26										0.452 B	10	0.39	26
27										0.540 B	20	0.93	27
28										0.760 B	30	1.97	28
29										1.00 B	40	3.46	29
30										1.50 B	50	6.48	30
31										2.00 B	60	10.4	31
TOTAL										12.549		26.36	TOTAL
MEAN										0.405		0.85	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2.10 B	70	12.7	11.0	1.98	62 S	10.6		3.15	238	64.8	1
2		2.00 B	80	13.8		1.93	72	12.0		2.30	191	38.0	2
3		1.85 B	90	14.4	12.0	1.86	54 S	8.68		1.74	148 S	22.2	3
4		1.73 B	100	14.9		1.77	52 S	7.95	17.0	1.49	118 S	15.2	4
5		1.70 B	110	16.2		1.85	53	8.47	15.0	1.84	117 S	18.6	5
6		2.50 B	130	28.1	13.0	1.75	52 S	7.86	14.0	1.49	73 S	9.40	6
7		3.50 B	150	45.4	16.0	1.59	53 S	7.28	17.0	1.19	63 S	6.48	7
8		4.00 B	170	58.8	17.0	1.44	54 S	6.72	16.0	0.952	56 S	4.61	8
9		4.10 B	190	67.3	19.0	1.31	51 S	5.77	17.0	0.986	63 S	5.37	9
10		3.00 B	210	54.4	19.0	1.20	52 S	5.39		0.906	54 S	4.23	10
11		3.20 B	230	63.6	16.0	1.16	53 S	5.31		1.09	76 S	7.16	11
12		3.40 B	250	73.4	20.0	1.12	54 S	5.23		0.956	65 S	5.37	12
13		2.63 B	280 S	63.6	11.0	1.09	55 S	5.18		0.721	44 S	2.74	13
14		2.35 B	309	62.7	12.0	1.01	55 S	4.80		1.12	112 S	10.8	14
15		2.15 B	318 S	59.1		0.971	56	4.70	16.0	4.77	471 S	194	15
16		2.13	165 S	30.4	13.0	0.945	57 S	4.65	14.0	7.09	531 S	325	16
17	6.0	2.33	160 S	32.2		0.895	57	4.41	13.0	4.47	503 S	194	17
18	6.0	2.22	80 S	15.3	14.0	0.863	57 S	4.25		10.0	556 S	480	18
19	7.0	2.02	68 S	11.9		0.809	60	4.19	17.0	7.52	231 S	150	19
20	3.0	2.01	86 S	14.9	11.0	0.765	76 S	5.02	18.0	4.53	133 S	52.1	20
21	4.0	1.96	86 S	14.6		0.730	83	5.23	10.0	3.07	125 S	33.2	21
22	5.0	2.07	87 S	15.6	13.0	0.911	94 S	7.40		2.50	134	28.9	22
23	4.0	1.91	86 S	14.2	12.0	7.44	229 S	147		2.70	147	34.3	23
24	5.0	1.76	85 S	12.9		9.11	274	216		3.54	208	63.6	24
25	8.0	1.74	98 S	14.7		8.09	232	162		2.64	195	44.5	25
26		1.91	108 S	17.8		6.46	183	102		1.81	181 S	28.3	26
27	9.0	1.89	80 S	13.1	14.0	4.53	135 S	52.8		1.43	170 S	21.0	27
28	10.0	1.90	76 S	12.5		3.34	113	32.6		1.07	159	14.7	28
29	7.0	1.84	56 S	8.90	13.0	4.94	146 S	62.3		0.899	148 S	11.5	29
30	9.0	1.85	38 S	6.07	14.0	6.51	323 S	182		0.688	129 S	7.67	30
31						4.45	282	108					31
TOTAL		69.75		883.47		82.819		1 205.79		78.658		1 897.73	TOTAL
MEAN		2.33		29.4		2.67		38.9		2.62		63.3	MEAN

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.559	108 S	5.22		0.319	14 S	0.39		0.539	31	1.44	1
2		0.540	88 S	4.11		0.309	14 S	0.37		0.462	35	1.40	2
3		0.485	73	3.06		0.251	13	0.28		0.336	36	1.05	3
4		0.364	63 S	1.98		0.400	11 S	0.38		0.286	37	0.91	4
5		0.303	55 S	1.44		0.496	13 S	0.56		0.252	38	0.83	5
6		0.261	48 S	1.08		0.458	16	0.63		0.239	37	0.76	6
7		0.210	49	0.89		0.460	14 S	0.56		0.250	37	0.80	7
8		0.205	53 S	0.94		0.370	13 S	0.42		0.221	37 S	0.71	8
9		0.260	59	1.33		0.343	15 S	0.44		0.198	41	0.70	9
10		0.182	38 S	0.60		0.392	16	0.54		0.180	43	0.67	10
11		0.141	16 S	0.19		0.483	16 S	0.67		0.181	47	0.74	11
12		0.122	11	0.12		0.495	15 S	0.64		0.189	56	0.91	12
13		0.091	10 S	0.08		0.508	13	0.57		0.131	66	0.75	13
14		0.066	9 S	0.05		0.501	11 S	0.48		0.115	76 S	0.76	14
15		0.185	29	0.46		0.482	10	0.42		0.147	75	0.95	15
16		0.395	37 S	1.26		0.458	9 S	0.36		0.171	73	1.08	16
17		0.520	29 S	1.30		0.420	10	0.36		0.166	72	1.03	17
18		0.460	26 S	1.03		0.419	11 S	0.40		0.169	71	1.04	18
19		0.415	22	0.79		0.404	11	0.38		0.163	70	0.99	19
20		0.400	17 S	0.59		0.361	10 S	0.31		0.173	69 S	1.03	20
21		0.351	13 S	0.39		0.349	8	0.24		0.198	72	1.23	21
22		0.317	8 S	0.22		0.349	7 S	0.21		0.182	69 S	1.09	22
23		0.304	6 S	0.16		0.315	7	0.19		0.235	68	1.38	23
24		0.324	6 S	0.17		0.310	8	0.21		0.266	72 S	1.65	24
25		0.342	6	0.18		0.332	9	0.26		0.336	76	2.21	25
26		0.310	6 S	0.16		0.347	8 S	0.24		0.671	108	6.26	26
27		0.284	5 S	0.12		0.329	7	0.20		1.39	99	11.9	27
28		0.257	5 S	0.11		0.287	6	0.15		1.11	84 S	8.06	28
29		0.230	7 S	0.14		0.237	7	0.14		0.814	70	4.92	29
30		0.246	12 S	0.26		0.217	7	0.13		0.836 A	59 S	4.26	30
31		0.295	14	0.36		0.345	14	0.42					31
TOTAL		9.424		28.79		11.746		11.55		10.606		61.51	TOTAL
MEAN		0.304		0.93		0.379		0.37		0.353		2.05	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.785 E	53	3.59									1
2		0.757 E	47	3.07									2
3		0.721 E	41	2.55									3
4		0.703 E	38	2.31									4
5		0.679 A	36	2.11									5
6		0.696	34	2.04									6
7		0.667	31	1.79									7
8		0.601	27	1.40									8
9		0.595	23 S	1.18									9
10		0.569	21 S	1.03									10
11		0.538	21	0.98									11
12		0.524	22	1.00									12
13		0.624	35 S	1.89									13
14		0.744	52	3.34									14
15		0.669	59	3.41									15
16		0.604	60	3.13									16
17		0.623	52 S	2.80									17
18		0.887	66	5.06									18
19		0.860	68	5.05									19
20		0.793	64	4.38									20
21		0.692	60	3.59									21
22		0.641	57	3.16									22
23		0.646	53	2.96									23
24		0.624	50	2.70									24
25		0.555	46	2.21									25
26		0.546	43	2.03									26
27		0.719	40	2.48									27
28		0.646	37	2.07									28
29		0.632	34	1.86									29
30		0.691 A	31	1.85									30
31		0.930 E	27	2.17									31
TOTAL		20.961		79.19									TOTAL
MEAN		0.676		2.55									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

TOTAL SUSPENDED SEDIMENT LOAD 4 194.39 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	164		MEAN	17.1	
MAXIMUM DAILY	556	ON JUN 18	MAXIMUM DAILY	480	ON JUN 18
MINIMUM DAILY	5	ON MAR 01	MINIMUM DAILY	0.05	ON JUL 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 03 55 N
LONG 99 46 44 W
DRAINAGE AREA 344 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 30	18:30	6.51H	14.0	319 K	21	32	46	65	79	86	92	97	99	100		BNW
JUN 12	21:30	0.956H	17.0	557 K	21	28	43	70	90	94	97	99				BNW
JUN 16	18:30	7.09H	14.0	509 K	21	32	52	75	95	98	99					BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		21.2 B				14.3 B				10.2 B			1
2		20.8 B				14.1 B				10.1 B			2
3		20.5 B				13.9 B				9.90 B			3
4		20.4 B				13.8 B				9.78 B			4
5		20.2 B				13.6 B				9.66 B			5
6		19.8 B				13.4 B				9.54 B			6
7		19.6 B				13.3 B				9.45 B			7
8		19.5 B				13.2 B				9.36 B			8
9		19.1 B				13.0 B				9.24 B			9
10		18.9 B				12.8 B				9.09 B			10
11		18.6 B				12.7 B				8.97 B			11
12		18.3 B				12.6 B				8.88 B			12
13		18.1 B				12.4 B				8.76 B			13
14		17.8 B				12.3 B				8.64 B			14
15		17.6 B				12.1 B				8.52 B			15
16		17.5 B				12.0 B				8.40 B			16
17		17.3 B				11.8 B				8.33 B			17
18		17.1 B				11.6 B				8.26 B			18
19		16.8 B				11.5 B				8.16 B			19
20		16.6 B				11.3 B				8.06 B			20
21		16.4 B				11.2 B				7.97 B			21
22		16.2 B				11.1 B				7.90 B			22
23		16.0 B				10.9 B				7.82 B			23
24		15.8 B				10.8 B				7.73 B			24
25		15.5 B				10.7 B				7.66 B			25
26		15.4 B				10.6 B				7.56 B			26
27		15.1 B				10.5 B				7.46 B			27
28		14.9 B				10.3 B				7.39 B			28
29		14.8 B								7.30 B			29
30		14.6 B								7.22 B			30
31		14.4 B								7.15 B			31
TOTAL		544.8				341.8				264.46			TOTAL
MEAN		17.6				12.2				8.53			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		7.06 B				11.0 E	7	6.65		70.2	33 S	200	1
2		7.01 B				13.0 E	7	7.86		65.7	35 S	199	2
3		6.94 B				15.5 E	8	10.7		61.8	33	176	3
4		6.86 B				18.8 E	8	13.0		58.6	30 S	152	4
5		6.79 B				22.5 E	9	17.5		56.7	32 S	157	5
6		6.72 B				26.5 E	10	22.9		55.3	34	162	6
7		6.67 B				32.0 E	11	30.4		54.6	35 S	165	7
8		6.60 B				38.0 E	15	49.2		54.1	37	173	8
9		6.50 B				46.5 E	19	76.3		53.5	38 S	176	9
10		6.43 B				54.5 E	24	113		53.2	39	179	10
11		6.36 B				64.8 E	33	185		52.2	39 S	176	11
12		6.29 B				78.0 E	42	283		51.6	36 S	160	12
13		6.22 B				92.5 E	53	424		50.4	36	157	13
14		6.14 B				111 E	69	662		49.2	38 S	162	14
15		6.05 B				136 E	85	999		48.1	43	179	15
16		5.98 B				163 E	103	1 450		47.3	46 S	188	16
17		5.92 B				215 E	122	2 270		48.3	45	188	17
18		5.86 B				225 E	132	2 570		49.5	42 S	180	18
19		5.80 B				216 E	113	2 110		49.5	43 S	184	19
20		5.74 B			8.0	205 A	86 S	1 520		48.9	43	182	20
21		5.68 B				193 E	75	1 250		48.5	43 S	180	21
22		5.62 B				179 E	68	1 050		47.2	48	196	22
23		5.58 B				167 E	61	880		45.0	52 S	202	23
24		5.52 B				152 E	55	722	12.0	44.0	43 S	163	24
25		5.46 B				139 E	50	600		42.4	43 S	158	25
26		5.40 B				122 A	46 S	485		40.9	45 S	159	26
27		5.45 E				111	41	393		39.7	45	154	27
28		6.40 E				99.9	38	328		38.3	46 S	152	28
29		7.50 E				90.9	37	291		36.9	46	147	29
30		9.00 E				82.4	36	256		35.9	46 S	143	30
31						75.2	34	221					31
TOTAL		189.55			3	196.0		19 296.51		1 497.5		5 149	TOTAL
MEAN		6.32				103		622		49.9		172	MEAN

MANITOBA

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		34.7	48	144		37.9	48	157		10.6	14	12.8	1
2		33.7	50 S	146		36.1	51 S	159		10.1	12	10.5	2
3		32.7	47 S	133		34.9	49	148		9.73	10	8.41	3
4		31.2	46	124		34.2	45	133		10.2	11	9.69	4
5		30.4	45 S	118		33.2	40	115		11.3	15	14.6	5
6		29.1	41	103		32.1	37	103		13.6	17	20.0	6
7		28.4	38 S	93.2		32.0	37	102		13.9	16	19.2	7
8		27.5	39	92.7		32.3	41	114		14.8	17	21.7	8
9		25.8	42 S	93.6		32.5	42	118		16.4	20	28.3	9
10		24.8	38 S	81.4		32.6	39	110		17.7	20	30.6	10
11		24.7	33	70.4		32.4	37	104		18.1	19	29.7	11
12		24.2	29 S	60.6		31.0	34	91.1		18.1	20	31.3	12
13		23.4	27	54.6		29.8	32	82.4		18.7	21	33.9	13
14	20.0	22.5	25 S	48.6		29.0	35	87.7		18.8	20	32.5	14
15		21.7	24	45.0		27.3	33	77.8		18.1	17	26.6	15
16		20.9	25 S	45.1		25.8	30	66.9		17.7	16	24.5	16
17		20.0	27 S	46.7		24.6	28	59.5		16.5	17	24.2	17
18		19.3	32	53.4		23.4	26 S	52.6		15.4	16	21.3	18
19		20.4	36 S	63.5		22.3	25	48.2		13.8	13	15.5	19
20		20.6	39	69.4		20.8	24 S	43.1		12.6	10	10.9	20
21		19.9	39 S	67.1		19.9	25	43.0		12.3	8	8.50	21
22		19.3	33	55.0		18.9	27	44.1		11.5	9	8.94	22
23		19.7	30 S	51.1		17.8	29 S	44.6		10.5	10	9.07	23
24		28.4	32	78.5		16.4	30	42.5		10.0	9	7.78	24
25		33.0	37	105		15.4	31 S	41.2		10.0	10	8.64	25
26		37.2	41 S	132		14.5	23	28.8		9.65	7	5.84	26
27		40.3	44	153		13.9	10 S	12.0		8.23	6	4.27	27
28		42.1	45 S	164		13.0	9	10.1		8.69	7	5.26	28
29		42.5	46	169		12.1	11	11.5		8.20	8	5.67	29
30		41.4	46 S	165		11.8	12	12.2		7.73	9	6.01	30
31		39.8	47	162		11.7	13	13.1					31
TOTAL		879.6		2 987.9		769.6		2 275.4		392.93		496.18	TOTAL
MEAN		28.4		96.4		24.8		73.4		13.1		16.5	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		8.19				26.5				8.75 B			1
2		9.45				26.2				8.42 B			2
3		9.79				26.0				8.06 B			3
4		9.70				25.6				7.70 B			4
5		9.73				25.1				7.40 B			5
6		9.69				24.2				7.07 B			6
7		9.89				23.2				6.77 B			7
8		11.0				22.1				6.50 B			8
9		11.4				21.4				6.20 B			9
10		11.7				20.1				5.85 B			10
11		11.2				18.8				5.55 B			11
12		11.0				17.9				5.35 B			12
13		13.1				17.5				5.10 B			13
14		17.0				17.1				4.88 B			14
15		23.7				16.9				4.65 B			15
16		31.7				16.8				4.45 B			16
17		38.2				16.3				4.25 B			17
18		42.7				16.0				4.05 B			18
19		46.5				15.0				3.85 B			19
20		48.8				14.1				3.60 B			20
21		47.5				13.6				3.43 B			21
22		43.0				12.4 B				3.28 B			22
23		39.4				11.9 B				3.18 B			23
24		38.6				11.4 B				3.04 B			24
25		36.4				11.1 B				2.92 B			25
26		34.2				10.6 B				2.80 B			26
27		32.4				10.3 B				2.68 B			27
28		30.4				9.88 B				2.58 B			28
29		28.9				9.39 B				2.48 B			29
30		28.0				9.00 B				2.38 B			30
31		27.4								2.30 B			31
TOTAL		770.64				516.37				149.52			TOTAL
MEAN		24.9				17.2				4.82			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 132 ON MAY 18

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 2 570 ON MAY 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 59 45 N
LONG 97 21 23 W
DRAINAGE AREA 6 450 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0 B	0	0		0 B	0	0		0.331 B	32	0.92	1
2		0 B	0	0		0 B	0	0		0.298 B	24	0.62	2
3		0 B	0	0		0 B	0	0		0.340 B	23	0.68	3
4		0 B	0	0		0 B	0	0		0.318 B	23	0.63	4
5		0 B	0	0		0 B	0	0	1.0	0.309 B	22 S	0.59	5
6		0 B	0	0		0 B	0	0		0.209 B	20	0.36	6
7		0 B	0	0		0 B	0	0		0.269 B	25	0.58	7
8		0 B	0	0		0 B	0	0		0.324 B	30	0.84	8
9		0 B	0	0		0 B	0	0		0.391 B	40	1.35	9
10		0 B	0	0		0 B	0	0		0.464 B	56	2.25	10
11		0 B	0	0		0 B	0	0		0.584 B	75	3.78	11
12		0 B	0	0		0 B	0	0		0.780 B	87	5.86	12
13		0 B	0	0		0 B	0	0		0.893 B	87	6.71	13
14		0 B	0	0		0 B	0	0		1.08 B	88	8.21	14
15		0 B	0	0		0 B	0	0		1.24 B	91	9.75	15
16		0 B	0	0		0.050 B	20	0.09		1.32 B	94	10.7	16
17		0 B	0	0		0.125 B	31	0.33	1.0	1.34 B	96 S	11.1	17
18		0 B	0	0	0.5	0.213 B	42 S	0.77		1.36 B	97	11.4	18
19		0 B	0	0		0.124 B	46	0.49		2.02 B	107	18.7	19
20		0 B	0	0		0.167 B	46	0.66		2.23 B	116	22.3	20
21		0 B	0	0		0.447 B	65	2.51		2.27 B	120	23.5	21
22		0 B	0	0		0.703 B	95	5.77		1.95 B	121	20.4	22
23		0 B	0	0		0.556 B	95	4.56		2.57 B	149	33.1	23
24		0 B	0	0		0.816 B	85	5.99		1.89 B	94	15.3	24
25		0 B	0	0		0.563 B	75	3.65		1.95 B	71	12.0	25
26		0 B	0	0		0.345 B	63	1.88	1.0	1.82 B	58 S	9.12	26
27		0 B	0	0		0.307 B	56	1.49		2.16 B	59	11.0	27
28		0 B	0	0		0.343 B	44	1.30		3.43 B	85	25.2	28
29		0 B	0	0						3.49 B	214	64.5	29
30		0 B	0	0						2.85	137	33.7	30
31		0 B	0	0						4.95	180	77.0	31
TOTAL		0		0		4.759		29.49		45.430		442.15	TOTAL
MEAN		0		0		0.170		1.05		1.47		14.3	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.26	173	78.6		4.78	49	20.1		1.16	36	3.61	1
2		4.59	145	57.5		4.63	46	18.4		1.10	34	3.23	2
3		4.40	126	47.9	16.0	4.49	48 S	18.6		1.02	32	2.82	3
4		4.42	114	43.5		4.19	47	17.0	19.0	1.09	42 S	3.96	4
5	8.0	4.36	109 S	41.1		3.93	47	16.0		1.07	38	3.51	5
6	6.0	4.60	120 S	47.7		3.77	42	13.7		0.957	37	3.06	6
7		4.77	130	53.6		3.53	37	11.3	21.0	0.866	37 S	2.77	7
8	8.0	4.88	120 S	50.6	10.5	3.30 A	33 S	9.41		0.787	35	2.38	8
9		5.20	130	58.4		3.09 E	26	6.94		0.793	35	2.40	9
10	9.0	5.62	174 S	84.5	8.0	2.88 E	26 S	6.47		0.810	33	2.31	10
11		5.68	157	77.0		2.66 E	26	5.98		0.768	31	2.06	11
12	7.0	5.80	136 S	68.2	15.0	2.45 A	22 S	4.66	15.0	0.705	31 S	1.89	12
13		6.03	122	63.6		2.22	20	3.84		0.761	30	1.97	13
14	5.0	6.04	114 S	59.5		1.98	20	3.42	16.0	0.809	30 S	2.10	14
15		6.09	112	58.9		1.76	22	3.35		0.848	30	2.20	15
16	12.0	6.16	137 S	72.9		1.61	22	3.06		0.775	30	2.01	16
17		6.11	143	75.5		1.50	23	2.98	18.0	0.737	26 S	1.66	17
18		6.04	131	68.4		1.38	21	2.50		0.707	20	1.22	18
19	6.0	6.00	116 S	60.1		1.22	21	2.21		0.641	17	0.94	19
20		6.05	109	57.0	19.0	0.964	21 S	1.75		0.585	22	1.11	20
21	8.0	6.01	101 S	52.4		0.831	28	2.01	17.0	0.581	82 S	4.12	21
22		5.96	93	47.9		2.64	642	146	15.0	0.623	95 S	5.11	22
23		5.56	86	41.3	10.0	8.12	2 180 S	1 530		0.696	98	5.89	23
24	10.0	5.47	80 S	37.8	9.0	4.89	408 S	172	15.0	0.750	94 S	6.09	24
25		5.52	78	37.2	9.0	2.96	210 S	53.7		0.617	89	4.74	25
26	10.0	5.39	75 S	34.9	10.0	2.54	124 S	27.2		0.557	82	3.95	26
27		4.98	68	29.3	14.0	2.07 A	94 S	16.8		0.524	77	3.49	27
28	11.0	4.84	60 S	25.1		1.82	78	12.3	19.0	0.508	72 S	3.16	28
29		4.80	57	23.6		1.58	60	8.19		0.471	65	2.65	29
30		4.78	53	21.9		1.37	44	5.21		0.444	59	2.26	30
31					21.0	1.24	39 S	4.18					31
TOTAL		161.41		1 575.9		86.355		2 149.26		22.760		88.67	TOTAL
MEAN		5.38		52.5		2.79		69.3		0.759		2.96	MEAN

MANITOBA

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.456	57	2.25		0.087	57	0.43		0.080	17	0.12	1
2		0.526	70	3.18	29.0	0.052	53 S	0.24		0.059	21	0.11	2
3	22.0	0.559	73 S	3.53		0.060	49	0.25		0.049	22	0.09	3
4		0.486	75	3.15		0.102	56	0.49		0.040	19	0.07	4
5	22.0	0.463	113 S	4.52		0.240	91	1.89		0.038	16	0.05	5
6		0.537 A	119	5.52	19.0	0.269	83 S	1.93	18.0	0.076	14 S	0.09	6
7		0.537 A	87	4.04		0.223	77	1.48		0.056	14	0.07	7
8		0.432	46	1.72		0.195	69	1.16		0.045	15	0.06	8
9	26.0	0.360	21 S	0.65	18.0	0.147	64 S	0.81		0.040	15	0.05	9
10		0.290	18	0.45		0.098	59	0.50		0.035	13	0.04	10
11		0.288	19	0.47		0.062	54	0.29	17.0	0.030	10 S	0.03	11
12	31.0	0.273	25 S	0.59		0.049	52	0.22		0.022	8	0.02	12
13		0.238	42	0.86		0.036	53	0.16	15.0	0.019	7 S	0.01	13
14		0.216	45	0.84		0.026	51	0.11		0.018	7	0.01	14
15	24.0	0.235	59 S	1.20		0.021	59	0.11		0.019	6	0.01	15
16	21.0	0.611 A	128 S	6.76	17.0	0.018	68 S	0.11		0.019	5	0.01	16
17		0.404	100	3.49		0.016	64	0.09		0.018	5	0.01	17
18		0.329	82	2.33		0.018	53	0.08		0.018	5	0.01	18
19		0.279	76	1.83	24.0	0.014	47 S	0.06		0.016	6	0.01	19
20	21.0	0.227	75 S	1.47		0.012	43	0.04	12.0	0.017	6 S	0.01	20
21		0.244	79	1.67		0.014	37	0.04		0.019	6	0.01	21
22		0.230	83	1.65		0.013	32	0.04		0.017	6	0.01	22
23		0.215	83	1.54		0.099	27	0.23		0.019	6	0.01	23
24		0.195	83	1.40		0.226	23	0.45		0.018	6	0.01	24
25		0.178	84	1.29		0.244	26	0.55		0.019	7	0.01	25
26	18.0	0.149	85 S	1.09		0.201	22	0.38		0.067	18	0.10	26
27		0.126	83	0.90		0.117	20	0.20	7.0	0.032	12 S	0.03	27
28		0.102	74	0.65		0.070	19	0.11	6.0	0.032 A	6 S	0.02	28
29		0.083	69	0.49		0.049	15	0.06		0.031	4	0.01	29
30	25.0	0.085	67 S	0.49	24.0	0.038	14 S	0.05		0.043	4	0.01	30
31		0.093	60	0.48		0.048	15	0.06					31
TOTAL		9.446		60.50		2.864		12.62		1.011		1.10	TOTAL
MEAN		0.305		1.95		0.092		0.41		0.034		0.04	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.074	6	0.04	4.0	0.090	6 S	0.05		0.067 B	54	0.31	1
2		0.050	8	0.03		0.090	6	0.05		0.064 B	62	0.34	2
3		0.065	8	0.04		0.100	6	0.05		0.061 B	68	0.36	3
4		0.084	9 S	0.07		0.100	6	0.05		0.057 B	71	0.35	4
5		0.072	9	0.06		0.102	6	0.05		0.052 B	73	0.33	5
6		0.069	9	0.05		0.097	6	0.05		0.047 B	76	0.31	6
7		0.051	9	0.04		0.099	6	0.05		0.044 B	77	0.29	7
8		0.048	8	0.03	0.1	0.098 B	10 S	0.08		0.039 B	77	0.26	8
9		0.054	8	0.04		0.098 B	11	0.09		0.036 B	78	0.24	9
10		0.047	9	0.04		0.097 B	12	0.10		0.033 B	78	0.22	10
11		0.044	8 S	0.03		0.097 B	10	0.08		0.030 B	78	0.20	11
12		0.147	13	0.17		0.096	6	0.05		0.028 B	78	0.19	12
13		0.138	13	0.16		0.094	6	0.05		0.024 B	78	0.16	13
14		0.114	10	0.10		0.091	5	0.04		0.022 B	78	0.15	14
15		0.092	9	0.07	2.0	0.094	5 S	0.04	0.5	0.020 B	78 S	0.13	15
16		0.077	9	0.06		0.101	5	0.04		0.018 B	78	0.12	16
17		0.077	9	0.06		0.109	5	0.05		0.015 B	78	0.10	17
18	4.4	0.064	9 S	0.05	1.0	0.076 B	6 S	0.04		0.013 B	78	0.09	18
19		0.064	9	0.05		0.076 B	10	0.07		0.011 B	78	0.07	19
20		0.075	9	0.06		0.076 B	11	0.07		0.009 B	76	0.06	20
21		0.068	9	0.05		0.076 B	12	0.08		0.007 B	66	0.04	21
22		0.068 B	10	0.06		0.076 B	13	0.09		0.005 B	51	0.02	22
23		0.068 B	11	0.06		0.076 B	16	0.11		0.004 B	33	0.01	23
24		0.068 B	11	0.06		0.076 B	18	0.12		0.002 B	12	0	24
25		0.067 B	11	0.06		0.076 B	21	0.14		0 B	0	0	25
26		0.067 B	10	0.06		0.073 B	27	0.17		0 B	0	0	26
27		0.067	8	0.05		0.073 B	34	0.21		0 B	0	0	27
28		0.067	8	0.05		0.073 B	38	0.24		0 B	0	0	28
29		0.071	7	0.04		0.070 B	42	0.25		0 B	0	0	29
30		0.082	7	0.05		0.070 B	47	0.28		0 B	0	0	30
31		0.089	7	0.05						0 B	0	0	31
TOTAL		2.288		1.88		2.620		2.84		0.708		4.35	TOTAL
MEAN		0.074		0.06		0.087		0.09		0.023		0.14	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 4 368.72 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	149	
MAXIMUM DAILY	2 180	ON MAY 23
MINIMUM DAILY	0	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	12.0	
MAXIMUM DAILY	1 530	ON MAY 23
MINIMUM DAILY	0	ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 53 N
, LONG 98 16 40 W
DRAINAGE AREA 7 510 km²
REGULATED FLOW
INTERNATIONAL GAUGING STATION

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	METHOD OF ANALYSIS
MAY 23	10:00	8.12H	10.0	3 740 K	15	22	74	94	98	100						BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASURE-MENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	METHOD OF ANALYSIS	TYPE OF SAMPLER
APR 06	13:30	4.60H	5	14	17	20	23	28	40	51	60	75	85	94	100		SHCMW	SCOOP

H - DAILY MEAN DISCHARGE

MANITOBA

RED RIVER AT EMERSON - STATION NO. 05OC001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		8.64 B	13	9.70		7.39 B	35	22.3		22.2 B	35	67.1	1
2		8.58 B	12	8.90		7.28 B	37	23.3		25.6 B	44	97.3	2
3		8.58 B	13	9.64	0.5	7.19 B	38 S	23.6	0.5	28.9 B	52 S	130	3
4		8.52 B	12	8.83		7.14 B	37	22.8		32.6 B	56	158	4
5		8.52 B	14	10.3		7.08 B	37	22.6		36.0 B	60	187	5
6		8.52 B	14	10.3		7.02 B	36	21.8		37.9 B	61	200	6
7		8.52 B	13	9.57		7.02 B	36	21.8		38.8 B	61	204	7
8		8.47 B	11	8.05		6.97 B	35	21.1		38.8 B	63	211	8
9		8.47 B	11	8.05		6.97 B	35	21.1		37.7 B	58	189	9
10		8.47 B	11	8.05		6.97 B	34	20.5		35.4 B	52	159	10
11		8.47 B	12	8.78		6.97 B	33	19.9		33.1 B	48	137	11
12		8.47 B	10	7.32		6.97 B	32	19.3		31.4 B	45	122	12
13		8.47 B	10	7.32		6.97 B	32	19.3		30.3 B	44	115	13
14		8.47 B	9	6.59		6.97 B	32	19.3		30.3 B	41	107	14
15		8.47 B	10	7.32		6.97 B	32	19.3		31.1 B	40	107	15
16	0.5	8.47 B	9 S	6.59		6.97 B	31	18.7		32.6 B	37	104	16
17		8.41 B	10	7.27		6.97 B	31	18.7		34.5 B	33	98.4	17
18		8.41 B	11	7.99		6.97 B	29	17.5		36.8 B	31	98.6	18
19		8.35 B	13	9.38		6.97 B	28	16.9	0.5	38.5 B	28 S	93.1	19
20		8.30 B	16	11.5		7.02 B	26	15.8		39.9 B	27	93.1	20
21		8.24 B	17	12.1		7.19 B	24	14.9		41.1 B	27	95.9	21
22		8.24 B	20	14.2		7.70 B	23	15.3		42.2 B	27	98.4	22
23		8.16 B	21	14.8		8.24 B	23	16.4		43.0 B	26	96.6	23
24		8.10 B	24	16.8		9.71 B	22	18.5		44.2 B	27	103	24
25		7.99 B	25	17.3	0.5	11.9 B	22 S	22.6		45.6 B	24	94.6	25
26		7.87 B	27	18.4		14.0 B	21	25.4		47.6 B	24	98.7	26
27		7.82 B	29	19.6		16.5 B	21	29.9		51.3 B	29	129	27
28		7.70 B	31	20.6		19.1 B	28	46.2		58.0 B	44	220	28
29		7.65 B	33	21.8						68.0 B	76	447	29
30		7.56 B	34	22.2						82.1 B	115	816	30
31		7.50 B	35	22.7						95.4 B	175	1 440	31
TOTAL		256.41		371.95		235.12		594.8		1 290.9		6 316.8	TOTAL
MEAN		8.27		12.0		8.40		21.2		41.6		204	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		107	264	2 440	10.0	27.3	117 S	276	17.0	87.7	635 S	4 810	1
2	3.0	88.1	237 S	1 800	13.0	28.1	115 S	279	17.0	72.3	663 S	4 140	2
3		77.6	169	1 130		28.3	116	284		60.4	600	3 130	3
4		74.2	155	994		28.2	119 S	290		49.9	464	2 000	4
5		73.0	184	1 160	12.0	28.6	112 S	277	19.0	40.5 A	360 S	1 260	5
6		72.1	232	1 450	13.0	29.2	109 S	275		37.3	285	918	6
7	5.0	70.6	273 S	1 670	14.0	29.8	122 S	314	20.0	35.0	241 S	729	7
8	5.0	69.5	259 S	1 560	13.0	30.2	123 S	321	19.0	34.1	242 S	713	8
9	6.0	66.9	200 S	1 160	11.0	30.7	116 S	308		33.6	254	737	9
10		61.1	181	956	11.0	30.9	152 S	406		34.0	247	726	10
11		56.5	173	845	11.0	31.4	177 S	480	20.0	34.9	231 S	697	11
12		53.3	169	778	12.0	30.9	178 S	475		35.1	218	661	12
13		50.4	167	727	15.0	30.1	169 S	440		35.9	215	667	13
14		47.6	163	670		29.5	156	398		36.8	215	684	14
15	6.0	46.8	157 S	635	15.0	28.8	147 S	366		38.9	221	743	15
16		46.0	147	584	15.0	27.8	140 S	336		40.0	224	774	16
17	8.0	44.9	138 S	535	16.0	26.3	144 S	327	20.0	39.2	222 S	752	17
18		44.1	133	507	18.0	25.2	143 S	311		36.5	224	706	18
19		43.3	129	483	17.0	24.3	143 S	300	18.0	36.2	219 S	685	19
20		40.9	123	435		23.5	121	246		37.8	214	699	20
21		37.8	118	385	20.0	22.3	91 S	175		40.9	200	707	21
22		34.3	115	341		21.0	87	158	18.0	44.0	200 S	760	22
23		31.7	111	304		21.1	85	155	18.0	43.3	207 S	774	23
24		30.6	107	283		21.2	95	174	19.0	43.3	207 S	774	24
25		29.6	108	276	14.0	22.1	122 S	233		44.2	201 S	768	25
26		28.3	105	257		24.5	173	366	20.0	47.5	223 S	915	26
27		27.1	105	246	16.0	47.5	408 S	1 670	20.0	54.1	222 S	1 040	27
28		27.1	107	251		99.4	750	6 440		55.0	215	1 020	28
29	14.0	27.3	107 S	252	17.0	130	1 050 S	11 800	21.0	55.9	233 S	1 130	29
30	12.0	27.1	116 S	272	16.0	129	1 560 S	17 400	22.0	60.0	298 S	1 540	30
31					17.0	110	848 S	8 060					31
TOTAL		1 534.8		23 386		1 217.2		53 340		1 344.3		35 659	TOTA
MEAN		51.2		780		39.3		1 720		44.8		1 190	MEA

RED RIVER AT EMERSON - STATION NO. 05OC001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		68.9	409	2 430		42.8	265	980		44.9	292	1 130	1
2	23.0	121	733 S	7 660		43.6	256	964		39.8	268	922	2
3		172	1 480	22 000		44.0	243	924		35.0	245	741	3
4		173	1 400	20 900	25.0	44.0	229 S	871		34.8	230	692	4
5	24.0	157	894 S	12 100		44.8	209	809		47.9	318	1 320	5
6		129	588	6 550		45.1	206	803		62.7	762	4 130	6
7	25.0	108	474 S	4 420		43.4	205	769		63.8	558	3 080	7
8		91.6	450	3 560		41.4	202	723		58.7	378	1 920	8
9		81.1	430	3 010		41.2	188	669		55.2	303	1 450	9
10		73.7	409	2 600		46.0	182	723		58.8	347	1 760	10
11		69.0	389	2 320		51.9	252	1 130		87.1	586	4 410	11
12		64.5	367	2 050		54.6	361	1 700		114	1 130	11 100	12
13		59.6	348	1 790	24.5	54.2	204 S	955		116	1 320	13 200	13
14		57.5	326	1 620		51.2	155	686		102	874	7 700	14
15	24.0	61.4	307 S	1 630		47.7	155	639		84.0	668	4 850	15
16	24.0	65.3	312 S	1 760		45.1	154	600		70.0	557	3 370	16
17		66.2	334	1 910		42.9	152	563		58.6	496	2 510	17
18		67.0	354	2 050	24.0	40.8	151 S	532	16.0	49.4	427 S	1 820	18
19		68.4	364	2 150		38.2	150	495		42.9	363	1 350	19
20		68.3	341	2 010		35.6	149	458		37.8	299	977	20
21		67.0	310	1 790		33.2	142	407		33.6	235	682	21
22	24.0	64.3	292 S	1 620		31.0	133	356		30.8	181	482	22
23		60.8	287	1 510		29.2	122	308		28.5	139	342	23
24		57.1	272	1 340		27.7	121	290		26.7	116	268	24
25		53.7	263	1 220		27.0	114	266		25.4	97	213	25
26		51.5	254	1 130		30.8	135	359		25.1	83	180	26
27	23.0	49.0	239 S	1 010		44.0	272	1 030		24.5	79	167	27
28		46.7	237	956		52.1	548	2 470		25.0	77	166	28
29		44.7	231	892		54.7	692	3 270		26.2	75	170	29
30		43.5	239	898		54.6	434	2 050	9.0	26.5	75 S	172	30
31		42.8	257	950		50.4	326	1 420					31
TOTAL		2 403.6		117 836		1 333.2		28 219		1 535.7		71 274	TOTAL
MEAN		77.5		3 800		43.0		910		51.2		2 380	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		26.6	72	165		67.0	56	324		36.2 B	64	200	1
2		25.8	72	160		65.2	56	315		33.4 B	70	202	2
3		25.8	68	152		64.5	55	307		30.9 B	78	208	3
4	10.0	26.0	60 S	135		63.8	57	314		29.4 B	84	213	4
5		28.6	62	153		62.8	55	298		30.3 B	86	225	5
6		37.9	81	265		62.1	53	284		31.7 B	89	244	6
7		50.6	143	625		60.2	53	276		32.6 B	92	259	7
8		55.2	159	758		57.4	52	258		33.1 B	96	275	8
9		55.1	88	419		56.2	52	252		33.4 B	101	291	9
10		57.8	80	400		55.1	52	248		33.4 B	105	303	10
11		65.2	133	749		54.8	51	241		33.1 B	107	306	11
12		71.6	205	1 270		55.9	48	232		32.6 B	111	313	12
13		72.9	174	1 100		56.8	46	226		31.7 B	112	307	13
14		72.4	101	632		57.4	47	233		30.6 B	115	304	14
15		73.8	79	504		58.1	44	221		30.3 B	118	309	15
16		79.9	104	718	5.0	58.6	38 S	192		30.0 B	120	311	16
17		94.8	267	2 190		58.9	40	204		29.4 B	120	305	17
18	9.0	106	283 S	2 590		59.0	43	219		28.9 B	118	295	18
19		106	140	1 280		58.7	46	233		28.6 B	118	292	19
20		97.8	106	896		58.8	48	244		28.3 B	118	289	20
21		91.3	89	702		59.4	49	251		28.2 B	119	290	21
22		87.7	80	606		59.3	50	256	0.1	28.1 B	119 S	289	22
23		87.1	76	572		57.4	51	253		29.2 B	117	295	23
24	9.0	85.9	75 S	557		52.9	50	229		30.9 B	110	294	24
25		83.4	69	497		46.2 A	50	200		32.0 B	100	276	25
26		80.5	65	452		42.4	50	183		32.0 B	90	249	26
27		76.8	62	411		41.6 B	50	180		32.3 B	73	204	27
28	5.0	74.3	58 S	372		40.5 B	53	185		32.3 B	59	165	28
29		71.8	55	341		39.1 B	57	193		32.3 B	47	131	29
30	5.0	70.2	55 S	334		37.7 B	60	195		32.0 B	40	111	30
31		69.1	55	328						32.0 B	36	99.5	31
TOTAL		2 107.9		20 333		1 667.8		7 246		969.2		7 854.5	TOTAL
MEAN		68.0		656		55.6		242		31.3		253	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 372 431.05 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	271	
MAXIMUM DAILY	1 560	ON MAY 30
MINIMUM DAILY	9	ON JAN 14

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1 020	
MAXIMUM DAILY	22 000	ON JUL 03
MINIMUM DAILY	6.59	ON JAN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 30 N
LONG 97 12 40 W
DRAINAGE AREA 104 000 km²
REGULATED FLOW
INTERNATIONAL GAUGING STATION

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

RED RIVER AT EMERSON - STATION NO. 05OC001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 30	09:30	129 H	16.0	1 730 K	12	23	64	98	100							BNW
JUN 02	11:10	72.3 H	17.0	663 R	48	59	82	95	98	99	100					BNW
JUL 05	21:15	157 H	24.0	748 K	42	54	73	93	98	100						BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

RED RIVER AT EMERSON - STATION NO. 05OC001

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASURE-MENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES												METHOD OF ANALYSIS	TYPE OF SAMPLER
				0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	
APR 02	15:15	88.1 H	5	69	77	81	86	90	96	99	100						SHCMW BM-54

H - DAILY MEAN DISCHARGE

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		23.0 B	9	17.9		22.6 B	9	17.6		53.8 B	19	88.3	1
2		22.9 B	9	17.8		22.2 B	10	19.2		56.7 B	18	88.2	2
3		22.8 B	10	19.7		21.7 B	11	20.6		59.6 B	17	87.5	3
4		22.1 B	10	19.1		21.8 B	10	18.8		61.4 B	18	95.5	4
5		22.4 B	9	17.4		21.8 B	9	17.0		60.3 B	21	109	5
6		22.1 B	9	17.2	0.5	22.0 B	8 S	15.2	0.5	57.9 B	21 S	105	6
7		21.2 B	9	16.5		22.6 B	9	17.6		57.9 B	21	105	7
8		20.3 B	9	15.8		22.7 B	10	19.6		58.0 B	21	105	8
9		19.8 B	9	15.4		21.8 B	11	20.7		56.1 B	21	102	9
10		20.9 B	8	14.4		21.7 B	10	18.7		54.4 B	21	98.7	10
11		21.7 B	10	18.7		21.8 B	9	17.0		52.3 B	22	99.4	11
12		21.4 B	9	16.6		21.7 B	9	16.9		51.4 B	23	102	12
13		21.5 B	9	16.7		21.6 B	9	16.8		51.5 B	22	97.9	13
14		21.0 B	7	12.7		21.5 B	10	18.6		53.1 B	21	96.3	14
15		21.0 B	9	16.3		21.7 B	9	16.9		58.0 B	20	100	15
16	0.5	21.0 B	8 S	14.5		21.7 B	10	18.7		64.4 B	19	106	16
17		21.0 B	8	14.5		21.8 B	9	17.0		73.3 B	19	120	17
18		21.1 B	8	14.6		22.1 B	8	15.3		80.9 B	19	133	18
19		21.6 B	10	18.7		22.3 B	8	15.4		87.2 B	19	143	19
20		22.3 B	8	15.4		23.0 B	8	15.9	0.5	92.6 B	21 S	168	20
21		22.9 B	8	15.8		22.6 B	10	19.5		92.9 B	24	193	21
22		23.1 B	8	16.0		22.7 B	10	19.6		92.8 B	25	200	22
23		22.5 B	9	17.5		23.8 B	11	22.6		92.7 B	28	224	23
24		22.7 B	9	17.7		26.0 B	11	24.7		92.1 B	28	223	24
25		23.1 B	9	18.0	0.5	27.9 B	12 S	28.9		95.5 B	30	248	25
26		23.7 B	7	14.3		32.1 B	16	44.4		101 B	36	314	26
27		23.7 B	8	16.4		40.4 B	16	55.8		102 B	41	361	27
28		23.6 B	9	18.4		50.1 B	19	82.2		104 B	46	413	28
29		23.6 B	9	18.4						106 B	52	476	29
30		23.3 B	9	18.1						106 B	64	586	30
31		23.1 B	9	18.0						122 B	93	980	31
TOTAL		686.4		518.5		685.7		651.2		2 347.8		6 367.8	TOTAL
MEAN		22.1		16.7		24.5		23.3		75.7		205	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		144 B	181	2 250		36.3	55 S	172		162	35 S	490	1
2		160 B	285	3 940		35.6	38	117	17.2	139	29 S	348	2
3		142 B	223	2 740		36.1	51 S	159		116	21 S	210	3
4		128 B	177	1 960		39.7	28 S	96.0	16.7	94.7	22 S	180	4
5		129 B	161	1 790		46.5	13 S	52.2		81.8	23 S	163	5
6		127 B	147	1 610		63.5	11 S	60.4	17.8	70.6	22 S	134	6
7		120	125	1 300		60.0	12 S	62.2		63.4	17 S	93.1	7
8	4.0	120	98 S	1 020		55.9	18 S	86.9	17.2	58.2	18 S	90.5	8
9		108	48 S	448		57.6	24 S	119		54.6	23	109	9
10		95.9	53 S	439		55.9	22 S	106	20.0	52.6	21 S	95.4	10
11		81.9	60 S	425		51.6	26 S	116		51.5	21	93.4	11
12		79.0	62 S	423		50.1	19 S	82.2	20.0	53.1	16 S	73.4	12
13		76.6	66 S	437	14.0	49.4	19 S	81.1		57.0	14	68.9	13
14		74.1	62 S	397		51.5	59 S	263		61.9	16	85.6	14
15		72.7	66 S	415		54.8	141	668		63.7	20 S	110	15
16		74.7	63 S	407		48.5	152	637		65.6	20	113	16
17		73.1	60 S	379		46.0	109 S	433		65.3	19 S	107	17
18		72.5	45 S	282		43.0	87	323		67.5	21	122	18
19		70.9	52 S	319		38.1	71 S	234	16.7	68.8	25 S	149	19
20		71.0	57 S	350		33.6	52	151		72.8	28	176	20
21		69.3	76 S	455		31.0	30 S	80.4		77.3	26	174	21
22		65.3	68 S	384		33.4	18	51.9		83.7	20 S	145	22
23		60.9	107 S	563		43.8	17	64.3	20.6	87.6	19 S	144	23
24		57.5	103 S	512		47.9	19 S	78.6		90.3	20	156	24
25		52.6	61 S	277		50.1	19	82.2	17.8	92.0	21 S	167	25
26		44.4	116 S	445		52.1	16 S	72.0		93.8	20	162	26
27		40.4	82 S	286		52.4	13	58.9		100	20	173	27
28		37.9	33 S	108		72.0	14 S	87.1		117	19	192	28
29		35.6	41 S	126		139	15	180	17.2	122	19 S	200	29
30		36.0	75 S	233		182	16	252		120	22	228	30
31					16.7	181	23 S	360					31
TOTAL		2 520.3		24 720		1 838.4		5 386.4		2 503.8		4 752.3	TOTAL
MEAN		84.0		824		59.3		174		83.5		158	MEAN

MANITOBA

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	21.1	120	31 S	321		47.7	36	148	21.0	95.2	42 S	345	1
2		128	37	409	22.0	46.9	32 S	130		81.9	37	262	2
3		172	37	550		48.2	29	121	20.0	68.1	36 S	212	3
4	21.7	223	42 S	809	22.0	49.7	20 S	85.9		57.2	36	178	4
5		234	86	1 740		53.3	20	92.1	20.0	55.7	37 S	178	5
6	22.2	218	97 S	1 830	22.0	58.7	30 S	152		60.8	34	179	6
7		191	73	1 200		56.6	46	225	18.0	88.6	28 S	214	7
8	24.5	164	65 S	921	21.0	56.0	50 S	242		102	22	194	8
9		146	67	845		53.8	44	205	21.0	97.6	21 S	177	9
10		132	71	810	23.0	52.4	35 S	158		87.7	21	159	10
11		118	76	775		54.5	40	188	22.0	82.7	25 S	179	11
12	21.1	108	85 S	793	22.0	60.2	60 S	312		103	29	258	12
13		97.7	91	768		66.3	64	367	21.0	152	31 S	407	13
14	21.1	89.8	72 S	559		69.2	52 S	311		190	46	755	14
15		84.4	61	445		67.5	50	292	16.0	186	69 S	1 110	15
16	21.7	83.0	67 S	480	22.0	62.6	57 S	308		172	48	713	16
17		83.6	66	477		57.0	63	310	16.7	144	44 S	547	17
18	21.1	83.6	59 S	426	22.0	54.1	63 S	294		120	46	477	18
19		82.4	51	363		47.3	61	249	15.6	106	38 S	348	19
20	20.6	81.3	41 S	288	23.0	43.0	59 S	219		92.1	37	294	20
21		81.2	36	253		39.4	47	160	15.0	79.3	40 S	274	21
22	21.1	79.4	42 S	288	21.0	37.9	35 S	115		68.3	43	254	22
23		77.2	46	307		36.8	36	114	16.1	55.4	41 S	196	23
24	20.0	74.5	49 S	315	22.0	35.7	46 S	142		48.3	39	163	24
25		70.5	48	292		32.7	47	133		43.7	37	140	25
26	21.7	65.1	43 S	242	21.0	30.5	43 S	113	13.0	41.6	39 S	140	26
27		60.3	39	203		30.2	35	91.3		42.9	40	148	27
28	21.7	56.7	38 S	186	22.0	37.2	25 S	80.4	9.0	40.2	46 S	160	28
29		53.2	37	170		50.3	23	100.0		40.4	40	140	29
30		51.3	37	164	22.0	73.2	32 S	202		41.0	27	95.6	30
31	21.7	50.5	36 S	157		92.0	39	310					31
TOTAL		3 359.7		17 386		1 600.9		5 969.7		2 643.7		8 896.6	TOTAL
MEAN		108		561		51.6		193		88.1		297	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	46.4	15 S	60.1		105	19 S	172		56.0 B	19	91.9	1
2		45.2	16	62.5		103	18 S	160		55.6 B	17	81.7	2
3		49.3	19	80.9		100	17	147		53.8 B	19	88.3	3
4	10.0	53.3	21 S	96.7		98.1	23 S	195		52.8 B	19	86.7	4
5	9.0	53.1	19 S	87.2		95.0	27	222		52.2 B	17	76.7	5
6	10.0	52.5	11 S	49.9		94.1	32 S	260		51.5 B	16	71.2	6
7		58.6	11	55.7		91.9	32	254		50.3 B	16	69.5	7
8	10.0	75.4	17 S	111		90.1	32	249		49.6 B	15	64.3	8
9		89.2	19	146		89.2	31	239		48.7 B	13	54.7	9
10	11.0	97.1	14 S	117		86.3	31	231		49.9 B	13	56.0	10
11		103	9	80.1		84.8	30	220		47.0 B	13	52.8	11
12	9.0	114	13 S	128		83.7	31	224		44.7 B	11	42.5	12
13		121	15	157		83.8	30	217		44.7 B	11	42.5	13
14		123	16	170		83.3	29	209		44.3 B	10	38.3	14
15	10.0	126	14 S	152		85.3	29	214		43.8 B	11	41.6	15
16		127	13	143		87.5	26	197		43.0 B	12	44.6	16
17		132	14	160	4.0	88.8	25 S	192		43.0 B	12	44.6	17
18	7.0	143	14 S	173		88.7	24	184		43.0 B	13	48.3	18
19		154	16	213		88.6	24	184		43.0 B	10	37.2	19
20		160	19	263		81.1	24	168		41.9 B	12	43.4	20
21	5.0	156	22 S	297		81.2 A	24	168		40.4 B	11	38.4	21
22		146	23	290		76.2	24	158		39.4 B	10	34.0	22
23		140	22	266		74.3	22	141	0.5	41.3 B	10 S	35.7	23
24		132	21	240		72.5	23	144		42.7 B	10	36.9	24
25		129	21	234		71.4	23	142		42.0 B	10	36.3	25
26		124	24	257		68.1 B	22	129		41.6 B	10	35.9	26
27		120	23	238		63.7 B	22	121		41.5 B	9	32.3	27
28		120	23	238		59.0 B	22	112		40.7 B	9	31.6	28
29	5.0	122	21 S	221		57.0 B	21	103		39.4 B	9	30.6	29
30		117	20 S	202		58.1 B	20	100		39.6 B	9	30.8	30
31		109	19	179						39.1 B	9	30.4	31
TOTAL		3 338.1		5 168.1		2 489.8		5 456		1 406.5		1 549.7	TOTAL
MEAN		108		167		83.0		182		45.4		50.0	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 86 822.3 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	40	
MAXIMUM DAILY	285	ON APR 02
MINIMUM DAILY	7	ON JAN 14

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	238	
MAXIMUM DAILY	3 940	ON APR 02
MINIMUM DAILY	12.7	ON JAN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 28 N
LONG 96 55 54 W
DRAINAGE AREA 287 000 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.761 B	6	0.39	1
2										3.34 B	6	1.73	2
3										8.10 B	6	4.20	3
4										6.64 B	6	3.44	4
5										5.54 B	6	2.87	5
6										4.40 B	6	2.28	6
7										3.40 B	6	1.76	7
8										2.81 B	6	1.46	8
9										2.25 B	6	1.17	9
10										1.73 B	6	0.90	10
11										1.51 B	6	0.78	11
12										1.43 B	6	0.74	12
13										1.39 B	6	0.72	13
14										1.36 B	6	0.71	14
15										1.37 B	6	0.71	15
16										1.41 B	6	0.73	16
17										1.46 B	6	0.76	17
18										1.50 B	6	0.78	18
19										1.55 B	6	0.80	19
20										2.10 B	6	1.09	20
21										2.70 B	6	1.40	21
22										2.70 B	6	1.40	22
23										2.46 B	6	1.28	23
24										2.40 B	6	1.24	24
25									0.1	2.35 B	6 S	1.22	25
26										2.18 B	8	1.51	26
27										1.89 B	10	1.63	27
28										2.51 B	14	3.04	28
29										2.65 B	14	3.21	29
30										3.23 B	20	5.58	30
31										3.98 B	26	8.94	31
TOTAL										83.101		58.47	TOTAL
MEAN										2.68		1.89	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.19 B	26	9.41	13.9	0.812	8 S	0.56		5.15	6	2.67	1
2		4.20 B	27	9.80		0.787	8	0.54		5.03	6	2.61	2
3	0.5	3.17 B	17 S	4.66		0.779	8	0.54	18.9	4.70	6 S	2.44	3
4	5.6	2.93	19 S	4.81		0.762	8	0.53		4.62	8	3.19	4
5		2.84	18	4.42		0.775	8	0.54		4.70	7	2.84	5
6	6.7	2.61	14 S	3.16		0.808	8	0.56		4.46	6	2.31	6
7		2.31	12	2.40		0.807	8	0.56		4.49	6	2.33	7
8	7.2	2.01	12 S	2.08		0.850	8	0.59		4.69	8	3.24	8
9		1.84	12	1.91		0.902	8	0.62		4.86	9	3.78	9
10		1.69	12	1.75		0.921	8	0.64		4.90	12	5.08	10
11		1.37	12	1.42		0.864	8	0.60		4.85	16	6.70	11
12		1.34	12	1.39		0.807	8	0.56	18.9	4.80	19 S	7.88	12
13		1.30	12	1.35		0.775	8	0.54		4.78	21	8.67	13
14		1.12	11	1.06		0.779	8	0.54		4.82	21	8.75	14
15		1.01	10	0.87		0.771	8	0.53		5.47	23	10.9	15
16		0.989	11	0.94		0.757	8	0.52	15.0	7.33	31 S	19.6	16
17		0.938	12	0.97		0.864	8	0.60		11.4	34	33.5	17
18		0.914	12	0.95		0.905	8	0.63		14.1	34	41.4	18
19		0.902	12	0.94		0.787	8	0.54		15.1	34	44.4	19
20		0.912	12	0.95		0.671	6	0.35		15.4	32	42.6	20
21	7.2	0.869	12 S	0.90		0.656	6	0.34		15.1	28	36.5	21
22		0.854	12	0.89		0.652	6	0.34	18.9	14.5	23 S	28.8	22
23		0.823	10	0.71		0.707	6	0.37		14.1	22	26.8	23
24		0.791	9	0.62		0.896	7	0.54	19.4	14.5	21 S	26.3	24
25		0.796	8	0.55		0.909	6	0.47		14.0	23	27.8	25
26	12.8	0.862	8 S	0.60		1.00	5	0.43	19.6	14.1	23 S	28.0	26
27		0.917	10	0.79	16.0	3.59	6 S	1.86	20.6	14.7	19 S	24.1	27
28		0.892	12	0.92		5.61	6	2.91		15.0	22	28.5	28
29	13.5	0.845	12 S	0.88		6.40	7	3.87	20.0	15.2	25 S	32.8	29
30		0.802	8	0.55		5.97	7	3.61		15.9	26	35.7	30
31						5.54	6	2.87					31
TOTAL		47.036		62.65		48.113		28.70		282.75		550.19	TOTAL
MEAN		1.57		2.09		1.55		0.93		9.43		18.3	MEAN

MANITOBA

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		17.2	28	41.6		0.911	13	1.02		0.706	8	0.49	1
2		18.2	29	45.6		1.04	12	1.08	16.0	0.637	9 S	0.50	2
3		18.8	28	45.5	21.1	2.10	12 S	2.18		0.560	9	0.44	3
4		18.9	28	45.7		2.18	12	2.26		0.512	8	0.35	4
5		18.8	28	45.5		2.36	12	2.45		0.482	7	0.29	5
6		18.5	22	35.2		2.50	13	2.81		0.683	8	0.47	6
7	23.3	18.0	18 S	28.0		3.05	15	3.95		1.79	9	1.39	7
8	23.3	16.9	19 S	27.7		3.10	17	4.55		3.22	8	2.23	8
9		15.2	19	25.0		3.42	17	5.02		3.52	8	2.43	9
10	24.4	13.4	18 S	20.8		4.44	18	6.91	13.9	6.08	8 S	4.20	10
11	22.8	11.5	16 S	15.9		4.98	19	8.18	20.0	7.78	10 S	6.72	11
12		9.63	14	11.6		4.90	18	7.62		8.79	12	9.11	12
13	26.7	8.16	12 S	8.46		4.37	16	6.04		9.16	13	10.3	13
14		7.02	10	6.07		3.66	13	4.11		8.73	13	9.81	14
15		6.17	9	4.80		2.95	10	2.55		7.97	12	8.26	15
16	23.3	5.49	8 S	3.79		2.37	9	1.84		7.05	11	6.70	16
17		4.89	8	3.38	22.2	1.95	7 S	1.18		6.47	10	5.59	17
18		4.32	9	3.36		1.68	6	0.87		5.92	10	5.11	18
19		3.76	9	2.92		1.35	6	0.70		5.37	9	4.18	19
20		3.21	11	3.05		1.27	8	0.88		4.97	8	3.44	20
21	20.6	2.70	11 S	2.57		0.906	8	0.63		4.63	8	3.20	21
22		2.34	12	2.43		0.782	8	0.54		3.52	7	2.13	22
23		2.39	13	2.68		0.715	8	0.49		2.59	7	1.57	23
24		2.49	13	2.80		0.684	8	0.47		2.12	6	1.10	24
25		2.32	13	2.61		0.644	8	0.45		1.83	5	0.79	25
26		1.99	13	2.24		0.638	8	0.44		1.82	6	0.94	26
27		1.66	13	1.86		0.711	8	0.49		1.77	6	0.92	27
28		1.41	13	1.58		0.600	7	0.36		1.71	5	0.74	28
29	21.0	1.16	13 S	1.30	23.3	0.584	7 S	0.35		1.99	6	1.03	29
30		1.02	13	1.15		0.581	7	0.35	8.5	2.10	6 S	1.09	30
31		1.15	14	1.39	19.4	0.606	6 S	0.31					31
TOTAL		258.68		446.54		62.032		71.08		114.480		95.52	TOTAL
MEAN		8.34		14.4		2.00		2.29		3.82		3.18	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.41	6	1.25									1
2		3.09	7	1.87									2
3		4.56	8	3.15									3
4		6.66	8	4.60									4
5		7.78	8	5.38									5
6		8.45	8	5.84									6
7		9.08	8	6.28									7
8		9.99	8	6.91									8
9		12.1	8	8.36									9
10		13.3	8	9.19									10
11		13.6	9	10.6									11
12		14.2	9	11.0									12
13		14.6	9	11.4									13
14		14.7	9	11.4									14
15		14.9	9	11.6									15
16		15.1	9	11.7									16
17		15.1	8	10.4									17
18		14.8	8	10.2									18
19		14.4	7	8.71									19
20		13.8	7	8.35									20
21	4.0	12.9	6 S	6.69									21
22		12.0	6	6.22									22
23		10.8	6	5.60									23
24		10.0	6	5.18									24
25		9.16 B	6	4.75									25
26		8.30 B	8	5.74									26
27		7.86	8	5.43									27
28	1.5	8.04 A	9 S	6.25									28
29		8.08 E	9	6.28									29
30		8.20 E	9	6.38									30
31		8.32 E	9	6.47									31
TOTAL		326.28		223.18									TOTAL
MEAN		10.5		7.20									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MEAN	15	MEAN	6.27
MAXIMUM DAILY	34 ON JUN 17	MAXIMUM DAILY	45.7 ON JUL 04
MINIMUM DAILY	5 ON MAY 26	MINIMUM DAILY	0.29 ON SEP 05

TOTAL SUSPENDED SEDIMENT LOAD 1 536.33 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 16 N
LONG 96 41 15 W
DRAINAGE AREA 4 430 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.448 B	10	0.39		0.369 B	10	0.32		0.684 B	10	0.59	1
2		0.544 B	10	0.47		0.357 B	10	0.31		0.612 B	10	0.53	2
3		0.668 B	10	0.58		0.332 B	10	0.29		3.09 B	11	2.94	3
4		0.770 B	10	0.67		0.314 B	10	0.27		9.22 B	20	15.9	4
5		0.790 B	10	0.68		0.294 B	10	0.25		7.51 B	15	9.73	5
6		0.661 B	10	0.57		0.277 B	10	0.24		4.89 B	13	5.49	6
7		0.496 B	10	0.43		0.264 B	10	0.23		3.36 B	12	3.48	7
8		0.415 B	10	0.36		0.250 B	10	0.22		2.44 B	10	2.11	8
9		0.381 B	10	0.33		0.233 B	10	0.20		1.95 B	9	1.52	9
10		0.366 B	10	0.32		0.221 B	10	0.19		1.61 B	9	1.25	10
11		0.333 B	10	0.29		0.216 B	10	0.19		1.45 B	9	1.13	11
12		0.307 B	10	0.27		0.222 B	10	0.19		1.52 B	9	1.18	12
13		0.244 B	10	0.21		0.387 B	10	0.33		1.41 B	9	1.10	13
14		0.165 B	10	0.14		0.499 B	10	0.43		1.45 B	9	1.13	14
15		0.108 B	10	0.09		0.546 B	10	0.47		1.57 B	9	1.22	15
16		0.093 B	10	0.08		0.591 B	10	0.51		1.64 B	9	1.28	16
17		0.089 B	10	0.08		0.572 B	10	0.49		1.83 B	9	1.42	17
18		0.089 B	10	0.08		0.548 B	10	0.47		1.79 B	9	1.39	18
19		0.090 B	10	0.08		0.520 B	10	0.45		1.95 B	9	1.52	19
20		0.091 B	10	0.08		0.471 B	10	0.41		2.03 B	9	1.58	20
21		0.094 B	10	0.08		0.364 B	10	0.31		2.54 B	9	1.98	21
22		0.103 B	10	0.09		0.311 B	10	0.27		2.76 B	9	2.15	22
23		0.103 B	10	0.09		0.350 B	10	0.30		2.85 B	9	2.22	23
24		0.106 B	10	0.09		0.756 B	10	0.65		2.73 B	9	2.12	24
25		0.169 B	10	0.15		0.672 B	10	0.58		2.88 B	9	2.24	25
26		0.296 B	10	0.26		0.746 B	10	0.64	0.1	2.93 B	9 S	2.28	26
27		0.303 B	10	0.26		2.14 B	10	1.85		2.79 B	7	1.69	27
28		0.303 B	10	0.26		1.25 B	10	1.08		2.85 B	7	1.72	28
29		0.300 B	10	0.26						3.00 B	11	2.85	29
30		0.318 B	10	0.27						3.32 B	18	5.16	30
31		0.352 B	10	0.30						3.47 B	20	6.00	31
TOTAL		9.595		8.31		14.072		12.14		84.126		86.90	TOTAL
MEAN		0.309		0.27		0.503		0.43		2.71		2.80	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.32 B	25	9.33		0.919	18	1.43		5.56	29	13.9	1
2	0.1	4.89 B	34 S	14.4		0.862	18	1.34	14.0	5.24	28 S	12.7	2
3		5.62 B	39	18.9		0.877	20	1.52		5.05	28	12.2	3
4		5.65 B	36	17.6	12.0	0.834	19 S	1.37		4.78	28	11.6	4
5	4.0	3.80 B	28 S	9.19		0.783	18	1.22	17.0	4.75	28 S	11.5	5
6		3.57	27	8.33		0.762	18	1.19		4.64	28	11.2	6
7		3.31	25	7.15		0.773	17	1.14		4.41	28	10.7	7
8		3.01	24	6.24		0.802	16	1.11	18.0	4.37	28 S	10.6	8
9		2.70	22	5.13		0.890	15	1.15		4.50	28	10.9	9
10	8.0	2.47	20 S	4.27		0.882	14	1.07		4.65	28	11.2	10
11		2.27	19	3.73	9.0	0.906	14 S	1.10		4.66	28	11.3	11
12		2.05	18	3.19		0.941	19	1.54		4.69	28	11.3	12
13		1.83	17	2.69		0.885	20	1.53	19.0	4.89	28 S	11.8	13
14		1.77	16	2.45	8.0	0.803	22 S	1.53		4.92	27	11.5	14

MANITOBA

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	20.0	16.0	41 S	56.7		1.45	37	4.64		0.766	19	1.26	1
2		17.2	43	63.9		1.48	34	4.35	17.5	0.666	17 S	0.98	2
3		18.2	45	70.8		1.50	34	4.41		0.692	16	0.96	3
4	22.0	18.5	46 S	73.5	21.0	1.54	30 S	3.99	14.0	0.703	13 S	0.79	4
5		18.6	47	75.5		2.04	30	5.29		0.570	10	0.49	5
6		18.6	47	75.5		2.31	30	5.99		0.817	14	0.99	6
7	24.0	18.1	45 S	70.4	19.0	2.37	29 S	5.94	17.0	1.21	21 S	2.20	7
8		17.3	44	65.8		2.43	29	6.09		1.18	20	2.04	8
9		15.9	42	57.7	20.0	2.65	26 S	5.95		2.67	27	6.23	9
10	22.0	14.1	40 S	48.7		2.65	24	5.50		2.98	29	7.47	10
11		12.4	44	47.1		3.38	27	7.88	18.0	4.81	32 S	13.3	11
12		10.4	48	43.1		3.81	32	10.5		6.34	34	18.6	12
13		8.41	52	37.8		3.84	31	10.3		7.41	35	22.4	13
14	24.0	6.92	56 S	33.5		3.53	26	7.93	16.0	7.81	36 S	24.3	14
15		5.83	56	28.2	22.0	3.08	22 S	5.85		7.74	37	24.7	15
16		5.02	57	24.7		2.64	20	4.56		7.03	33	20.0	16
17		4.50	57	22.2		2.35	20	4.06		6.17	28	14.9	17
18		4.01	58	20.1		2.40	24	4.98		5.59	23	11.1	18
19		3.58	58	17.9	19.0	1.79	19 S	2.94	14.0	5.06	19 S	8.31	19
20	22.0	3.20	58 S	16.0		1.57	18	2.44		4.67	17	6.86	20
21		2.82	58	13.2		1.42	18	2.21		4.39	16	6.07	21
22	20.0	2.48	49 S	10.5		1.32	17	1.94		4.07	15	5.27	22
23		2.22	44	8.44		1.14	17	1.67		3.46	14	4.19	23
24	21.0	2.17	43 S	8.06	22.0	1.04	16 S	1.44	10.0	2.80	13 S	3.14	24
25		2.23	44	8.48		0.929	15	1.20		2.31	12	2.40	25
26		2.15	42	7.80		0.862	14	1.04		2.22	12	2.30	26
27		1.99	40	6.88		0.764	15	0.99		2.14	11	2.03	27
28	19.0	1.80	38 S	5.91		0.704	17	1.03		2.17	11	2.06	28
29		1.61	33	4.59		0.799	20	1.38	7.0	2.02	10 S	1.75	29
30	22.0	1.53	30 S	3.97	22.0	0.690	20 S	1.19	8.5	2.34	9 S	1.82	30
31	21.0	1.76	41 S	6.23		0.668	18	1.04					31
TOTAL		259.53		1 033.16		59.146		128.72		102.804		218.91	TOTAL
MEAN		8.37		33.3		1.91		4.15		3.43		7.30	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.70	8	1.87		8.16	14	9.87		3.72 B	13	4.18	1
2	7.0	2.62	6 S	1.36		7.90	14	9.56		4.70 B	13	5.28	2
3		3.07	8	2.12		6.85	13	7.69		5.20 B	13	5.84	3
4		4.20	11	3.99	0.1	6.25	13 S	7.02		5.01 B	13	5.63	4
5	9.0	6.05	17 S	8.89		5.94	12	6.16		4.04 B	13	4.54	5
6		7.36	21	13.4		5.94	12	6.16		3.48 B	12	3.61	6
7		8.17	24	16.9	1.0	6.93	13 S	7.78		3.53 B	12	3.66	7
8		8.98	27	20.9		7.08	12	7.34		3.87 B	12	4.01	8
9	9.0	10.6	29 S	26.6	0.1	6.89	11 S	6.55		3.35 B	12	3.47	9
10		12.9	31	34.6		6.74	10	5.82		3.11 B	12	3.22	10
11		13.9	34	40.8		6.36	9	4.95		3.34 B	12	3.46	11
12	10.0	15.1	36 S	47.0	1.0	6.15	8 S	4.25		3.85 B	12	3.99	12
13		15.7	37	50.2		5.91	8	4.08		3.79 B	12	3.93	13
14		15.7	34	46.1		5.75	7	3.48		3.32 B	12	3.44	14
15	8.0	16.0	31 S	42.9		5.75	8	3.97		2.89 B	12	3.00	15
16		16.3	31	43.7	3.0	5.80	9 S	4.51		2.59 B	11	2.46	16
17	8.0	16.5	31 S	44.2		5.77	9	4.49		2.50 B	11	2.38	17
18		16.3	29	40.8		5.85	9	4.55		2.78 B	11	2.64	18
19		15.9	27	37.1		6.02	10	5.20		2.71 B	11	2.58	19
20	5.0	15.5	25 S	33.5		6.33 B	12	6.56		2.63 B	11	2.50	20
21		14.7	22	27.9		6.38 B	12	6.61		2.67 B	11	2.54	21
22		13.8	19	22.7		6.60 B	13	7.41		1.91 B	11	1.82	22
23	1.0	12.8	16 S	17.7		6.54 B	11	6.22		1.33 B	11	1.26	23
24		11.9 B	16	16.5	0.5	7.69 B	15 S	9.97		1.07 B	11	1.02	24
25		11.0 B	16	15.2		7.45 B	15	9.66		0.944 B	11	0.90	25
26		10.5 B	16	14.5		6.60 B	14	7.98		0.840 B	10	0.73	26
27	1.0	9.19 B	15 S	11.9		5.40 B	14	6.53		0.791 B	10	0.68	27
28		8.28	15	10.7		4.31 B	13	4.84		0.809 B	10	0.70	28
29	2.0	8.27	14 S	10.0		4.16 B	13	4.67		0.785 B	10	0.68	29
30		8.35	14	10.1		4.37 B	13	4.91		0.732 B	10	0.63	30
31		8.37	14	10.1						0.682 B	10	0.59	31
TOTAL		340.71		724.23		187.87		188.79		82.973		85.37	TOTAL
MEAN		11.0		23.4		6.26		6.29		2.68		2.75	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 3 607.40 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	27
MAXIMUM DAILY	58 ON JUL 18
MINIMUM DAILY	6 ON OCT 02

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	9.88
MAXIMUM DAILY	75.5 ON JUL 05
MINIMUM DAILY	0.08 ON JAN 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 53 N
LONG 97 03 15 W
DRAINAGE AREA 5 150 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		273 B	26	613	0.5	518 B	28 S	1 250	0.5	416 B	18 S	647	1
2		283 B	26	636		507 B	27	1 180		428 B	18	666	2
3		294 B	25	635		498 B	26	1 120		430 B	18	669	3
4	0.5	306 B	26 S	687		496 B	25	1 070		430 B	19	706	4
5		317 B	26	712		496 B	24	1 030		445 B	19	731	5
6		314 B	27	732		493 B	23	980		464 B	19	762	6
7		309 B	28	748		487 B	22	926		481 B	19	790	7
8		309 B	29	774	0.5	481 B	22 S	914	0.5	490 B	20 S	847	8
9		306 B	30	793		479 B	22	910		493 B	19	809	9
10		323 B	31	865		473 B	21	858		490 B	18	762	10
11	0.5	360 B	32 S	995		467 B	21	847		487 B	16	673	11
12		391 B	32	1 080		464 B	21	842		481 B	15	623	12
13		399 B	31	1 070		464 B	20	802		459 B	14	555	13
14		394 B	31	1 060		467 B	20	807		430 B	13	483	14
15		385 B	31	1 030	0.5	464 B	20 S	802	0.5	402 B	12 S	417	15
16		394 B	31	1 060		462 B	19	758		385 B	12	399	16
17		402 B	30	1 040		462 B	18	719		374 B	12	388	17
18	0.5	416 B	30 S	1 080		456 B	18	709		360 B	11	342	18
19		430 B	30	1 110		453 B	17	665		357 B	12	370	19
20		445 B	31	1 190		456 B	17	670		357 B	12	370	20
21		453 B	32	1 250		453 B	16	626		360 B	12	373	21
22		447 B	33	1 270	0.5	445 B	16 S	615	0.5	385 B	12 S	399	22
23		447 B	34	1 310		436 B	16	603		402 B	12	417	23
24		447 B	35	1 350		430 B	16	594		408 B	13	458	24
25	0.5	481 B	35 S	1 450		425 B	16	588		399 B	13	448	25
26		504 B	34	1 480		422 B	17	620		385 B	13	432	26
27		518 B	32	1 430		419 B	17	615		382 B	14	462	27
28		518 B	31	1 390		419 B	17	615		388 B	14	469	28
29		518 B	30	1 340					0.5	396 B	15 S	513	29
30		521 B	29	1 310						399 B	16	552	30
31		521 B	28	1 260						402 B	17	590	31
TOTAL		12 425		32 750		12 992		22 735		12 965		17 122	TOTAL
MEAN		401		1 060		464		812		418		552	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		411 B	19	675	3.0	748 B	48 S	3 100	14.5	728	160 S	10 100	1
2		433 B	20	748	5.0	688	47 S	2 790	15.5	748	161 S	10 400	2
3		462 B	22	878	4.5	660	44 S	2 510	16.5	762	156 S	10 300	3
4		487 B	23	968	4.5	634	44 S	2 410	17.0	779	148 S	9 960	4
5		510 B	25	1 100	6.0	586	44 S	2 230	18.0	773	149 S	9 950	5
6	0.5	538 B	26 S	1 210	5.5	586	38 S	1 920	18.5	790	157 S	10 700	6
7		566 B	30	1 470	5.0	603	41 S	2 140	17.5	841	159 S	11 600	7
8		583 B	34	1 710		626	59	3 190	17.5	878	168 S	12 700	8
9		597 B	37	1 910	8.0	654	68 S	3 840		869	176 S	13 200	9
10		626 B	41	2 220	7.5	595	64 S	3 290	16.0	869	162 S	12 200	10
11		674 B	45	2 620	9.5	549	86 S	4 080		864	148	11 000	11
12	0.5	722 B	49 S	3 060	11.0	521	79 S	3 560	16.0	844	135 S	9 840	12
13		756 B	47	3 070	11.5	524	65 S	2 940	16.5	855	127 S	9 380	13
14		750 B	44	2 850		507	49	2 150	17.0	852	127 S	9 350	14
15		790 B	41	2 800		527	57	2 600	15.5	867	149 S	11 200	15
16		847 B	39	2 850	12.5	532	70 S	3 220	17.0	881	151 S	11 500	16
17		906 B	36	2 820	11.5	498	75 S	3 230	16.5	892	164 S	12 600	17
18		943 B	34	2 770	10.5	467	83 S	3 350		949	196	16 100	18
19		968 B	32	2 680	11.0	425	78 S	2 860	15.5	912	228 S	18 000	19
20		971 B	29	2 430	12.0	402	60 S	2 080	16.0	912	203 S	16 000	20
21	0.5	960 B	27 S	2 240	16.5	439	55 S	2 090	17.0	934	160 S	12 900	21
22		960 B	30	2 490		473	68	2 780	16.0	951	164 S	13 500	22
23		957 B	34	2 810		541	104	4 860	16.5	940	158 S	12 800	23
24		949 B	38	3 120	16.5	507	106 S	4 640	17.0	932	137 S	11 000	24
25		946 B	42	3 430	18.5	481	92 S	3 820	18.0	923	127 S	10 100	25
26		943 B	46	3 750	18.5	470	90 S	3 650	18.5	934	127 S	10 200	26
27	2.4	878 B	48 S	3 640	15.5	496	92 S	3 940	20.5	926	120 S	9 600	27
28	3.0	816 B	41 S	2 890		572	105	5 190	20.0	932	133 S	10 700	28
29	3.0	796 B	44 S	3 030	14.0	620	125 S	6 700	20.0	917	152 S	12 000	29
30	4.0	770 B	63 S	4 190	12.5	665	155 S	8 910	21.0	906	122 S	9 550	30
31					14.0	699	160 S	9 660					31
TOTAL		22 515		72 429		17 295		113 730		26 160		348 430	TOTAL
MEAN		751		2 410		558		3 670		872		11 600	MEAN

MANITOBA

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	20.5	917	109 S	8 640	19.5	827	154 S	11 000		906	138	10 800	1
2	22.5	926	110 S	8 800	19.5	900	144 S	11 200	17.0	858	146 S	10 800	2
3	23.0	886	104 S	7 960	20.0	971	149 S	12 500	15.5	833	111 S	7 990	3
4	22.5	867	101 S	7 570	21.0	1 010	171 S	14 900		810	129	9 030	4
5	22.5	869	98 S	7 360	22.0	1 040	177 S	15 900	14.0	816	157 S	11 100	5
6	23.5	869	117 S	8 780	22.0	1 080	180 S	16 800	14.0	847	151 S	11 100	6
7	23.5	855	99 S	7 310	22.5	1 100	190 S	18 100		830	120	8 610	7
8	21.5	824	167 S	11 900		1 140	193	19 000	15.5	799	91 S	6 280	8
9	21.5	699	141 S	8 520	23.5	1 180	197 S	20 100		756	94	6 140	9
10	20.0	685	153 S	9 060	23.0	1 180	198 S	20 200	17.0	739	105 S	6 700	10
11	19.5	646	224 S	12 500	23.0	1 200	200 S	20 700		728	95	5 980	11
12	20.0	617	172 S	9 170	22.0	1 230	202 S	21 500	17.5	708	78 S	4 770	12
13	20.0	631	120 S	6 540	21.5	1 210	190 S	19 900		674	84	4 890	13
14	21.0	634	99 S	5 420	20.5	1 200	179 S	18 600	16.5	646	94 S	5 250	14
15	21.5	663	96 S	5 500	20.0	1 200	170 S	17 600		629	89	4 840	15
16	21.0	671	117 S	6 780	20.0	1 160	153 S	15 300	15.0	620	82 S	4 390	16
17	19.5	643	187 S	10 400	20.5	1 180	138 S	14 100		614	79	4 190	17
18	20.5	660	186 S	10 600	21.0	1 170	134 S	13 500	15.0	606	79 S	4 140	18
19	21.5	685	132 S	7 810	22.0	1 160	127 S	12 700		623	85	4 580	19
20	21.5	716	101 S	6 250	22.0	1 140	123 S	12 100	15.0	648	97 S	5 430	20
21	21.5	736	97 S	6 170	22.5	1 120	118 S	11 400		651	151	8 490	21
22	21.0	719	126 S	7 830	22.0	1 110	115 S	11 000		637	231	12 700	22
23	21.0	733	104 S	6 590	23.0	1 100	117 S	11 100	12.5	592	284 S	14 500	23
24	21.0	722	96 S	5 990	23.0	1 080	113 S	10 500		569	207	10 200	24
25	21.0	719	92 S	5 720	23.5	1 050	105 S	9 530	12.5	595	136 S	6 990	25
26	20.0	694	92 S	5 520		1 030	100	8 900		595	126	6 480	26
27	19.5	688	108 S	6 420	22.5	1 010	97 S	8 460	11.0	634	147 S	8 050	27
28		705	102	6 210	22.5	985	94 S	8 000		620	207	11 100	28
29	21.0	725	86 S	5 390	23.0	949	90 S	7 380	9.0	572	281 S	13 900	29
30	21.0	779	98 S	6 600		957	89	7 360		569	326	16 000	30
31	20.0	810	120 S	8 400	20.5	949	102 S	8 360					31
TOTAL		22 993		237 710		33 618		427 690		20 724		245 420	TOTAL
MEAN		742		7 670		1 080		13 800		691		8 180	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	7.0	552	327 S	15 600	1.0	430	62 S	2 300		402 B	11	382	1
2		530	247	11 300		433	65	2 430		385 B	10	333	2
3	8.0	513	146 S	6 470		411	68	2 410		371 B	10	321	3
4		501	133	5 760		419	71	2 570		360 B	10	311	4
5	9.5	501	149 S	6 450		411	75	2 660		351 B	11	334	5
6		498	114	4 910		408	78	2 750	1.0	343 B	11 S	326	6
7	9.0	481	87 S	3 620		419	81	2 930		317 B	11	301	7
8		493	83	3 540	1.0	413	83 S	2 960		278 B	13	312	8
9	9.0	518	84 S	3 760		394	78	2 660		254 B	12	263	9
10		541	116	5 420		399	72	2 480		241 B	13	271	10
11		518	154	6 890		450	66	2 570		228 B	14	276	11
12	9.0	530	192 S	8 790		447	58	2 240		212 B	15	275	12
13		575	204	10 100		416	51	1 830	0.5	200 B	16 S	276	13
14	8.0	564	186 S	9 060		422	44	1 600		202 B	18	314	14
15		541	160	7 480	1.0	445	38 S	1 460		203 B	19	333	15
16	8.5	549	125 S	5 930		450	36	1 400		194 B	21	352	16
17		541	96	4 490		425	34	1 250	0.5	192 B	24 S	398	17
18	7.0	544	86 S	4 040		365	32	1 010		193 B	20	334	18
19		521	111	5 000		368	30	954		196 B	14	237	19
20	5.5	496	139 S	5 960		385 B	28	931	0.5	195 B	10 S	168	20
21		473	118	4 820		411 B	26	923		190 B	14	230	21
22	2.5	453	92 S	3 600		433 B	23	860		190 B	22	361	22
23		487	89	3 740	1.0	453 B	21 S	822		195 B	29	489	23
24	0.5	501	88 S	3 810		459 B	19	753		197 B	35	596	24
25		524	86	3 890		459 B	17	674		203 B	43	754	25
26		521	83	3 740		456 B	16	630		208 B	49	881	26
27		504	80	3 480		453 B	14	548	0.5	215 B	55 S	1 020	27
28		504	76	3 310		442 B	13	496		221 B	51	974	28
29		473 B	73	2 980	1.0	433 B	11 S	412		224 B	47	910	29
30		462 B	69	2 750		411 B	10	355		235 B	43	873	30
31		456 B	65	2 560						244 B	39	822	31
TOTAL		15 865		173 250		12 720		47 868		7 639		14 027	TOTAL
MEAN		512		5 590		424		1 600		246		452	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	93	
MAXIMUM DAILY	327	ON OCT 01
MINIMUM DAILY	10	ON NOV 30

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	4 800	
MAXIMUM DAILY	21 500	ON AUG 12
MINIMUM DAILY	168	ON DEC 20

TOTAL SUSPENDED SEDIMENT LOAD 1 753 161 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 50 30 N
. LONG 101 11 10 W
DRAINAGE AREA 347 000 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 19	20:50	912 H	15.5	228 K	27	36	53	75	88	95	98	99	100			BNW
SEP 23	12:05	592 H	12.5	289 K	36	46	73	89	94	96	99	100				BNW
SEP 29	12:00	572 H	9.0	280 K	37	47	72	93	97	98	99	100				BNW
OCT 01	12:00	552 H	7.0	325 K	43	55	75	93	96	97	99	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MANITOBA

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.14 B	170	16.7		1.96 B	40	6.77		7.89 B	21	14.3	1
2		1.14 B	168	16.5		1.86 B	36	5.79		6.46 B	21	11.7	2
3		1.09 B	167	15.7		1.70 B	34	4.99		6.65 B	20	11.5	3
4		1.06 B	166	15.2		1.58 B	32	4.37		6.12 B	20	10.6	4
5		1.03 B	165	14.7		1.43 B	31	3.83		6.13 B	20	10.6	5
6		0.948 B	164	13.4		1.28 B	29	3.21		6.81 B	19	11.2	6
7		0.960 B	162	13.4		1.19 B	28	2.88		6.82 B	18	10.6	7
8		0.951 B	161	13.2		1.16 B	28	2.81		6.81 B	18	10.6	8
9		1.06 B	160	14.7		1.26 B	28	3.05		6.66 B	18	10.4	9
10		1.10 B	158	15.0		1.35 B	27	3.15		6.50 B	17	9.55	10
11		1.07 B	157	14.5		1.45 B	25	3.13		6.55 B	17	9.62	11
12		0.989 B	155	13.2		1.41 B	25	3.05	0.5	7.21 B	17 S	10.6	12
13		0.957 B	153	12.7		1.24 B	24	2.57		8.31 B	17	12.2	13
14		0.983 B	152	12.9		0.956 B	23	1.90		8.80 B	17	12.9	14
15		1.01 B	151	13.2		0.890 B	23	1.77	1.5	9.57 B	16 S	13.2	15
16	0.5	1.35 B	149 S	17.4		0.875 B	22	1.66		10.5 B	16	14.5	16
17		1.37 B	146	17.3		1.15 B	22	2.19		11.4 B	16	15.8	17
18		1.20 B	140	14.5		1.94 B	21	3.52	1.0	12.0 B	23 S	23.8	18
19		1.18 B	131	13.4	0.5	2.03 B	21 S	3.68		11.8	72	73.4	19
20		1.17 B	121	12.2		2.77 B	22	5.27		10.7	87	80.4	20
21		1.14 B	107	10.5		5.78 B	25	12.5	1.0	9.58	73 S	60.4	21
22		1.11 B	93	8.92		4.28 B	26	9.61		8.46	54	39.5	22
23		1.10 B	79	7.51		8.45 B	34	24.8		8.18	31	21.9	23
24		1.11 B	65	6.23		11.3 B	32	31.2	2.0	7.84	17 S	11.5	24
25		1.19 B	51	5.24		11.9 B	28	28.8		7.46	15	9.67	25
26		1.24 B	39	4.18		10.8 B	25	23.3		5.87	14	7.10	26
27		1.40 B	36	4.35		10.9 B	23	21.7	1.0	5.70	14 S	6.89	27
28		1.68 B	37	5.37		8.95 B	22	17.0		5.17	14	6.25	28
29		2.16 B	41	7.65						4.66	15	6.04	29
30		2.32 B	46	9.22					2.5	4.36	16 S	6.03	30
31		2.16 B	44	8.21					5.0	4.38	17 S	6.43	31
TOTAL		38.368		367.18		101.841		238.50		235.35		559.18	TOTAL
MEAN		1.24		11.8		3.64		8.52		7.59		18.0	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.89	17	7.18		8.29	14	10.0	18.0	3.49	18 S	5.43	1
2		5.89	18	9.16		8.14	13	9.14		3.29	18	5.12	2
3	6.0	6.51	18 S	10.1		7.93	12	8.22		3.16	18	4.91	3
4		6.71	20	11.6	12.0	7.54	12 S	7.82		3.29	19	5.40	4
5		6.98	23	13.9		7.58	11	7.20	19.0	3.81	23 S	7.57	5
6		7.27	24	15.1		7.43	10	6.42		3.95	21	7.17	6
7	6.0	7.16	24 S	14.8	14.0	7.00	9 S	5.44		4.06	17	5.96	7
8		7.03	23	14.0		6.83	9	5.31	19.0	3.76	14 S	4.55	8
9		6.72	21	12.2		6.82	9	5.30		3.64	14	4.40	9
10		6.62	19	10.9		6.63	9	5.16		3.46	14	4.19	10
11	6.0	6.64	17 S	9.75	15.0	5.95	10 S	5.14		3.31	14	4.00	11
12		6.50	17	9.55		4.72	9	3.67	21.0	3.24	14 S	3.92	12
13		6.66	17	9.78		3.81	8	2.63		3.38	14	4.09	13
14	6.0	6.62	17 S	9.72	16.0	3.14	7 S	1.90		3.50	13	3.93	14
15		6.57	18	10.2		2.73	7	1.65		3.49	13	3.92	15
16		6.52	20	11.3		2.56	8	1.77	20.0	3.55	13 S	3.99	16
17	10.0	6.24	21 S	11.3	13.0	2.38	8 S	1.65		3.77	12	3.91	17
18		6.01	19	9.87		2.23	9	1.73		4.08	11	3.88	18
19		6.26	17	9.19		2.12	9	1.65	19.5	4.47	10 S	3.86	19
20	12.0	6.16	15 S	7.98	20.0	1.92	9 S	1.49		4.45	10	3.84	20
21		5.93	14	7.17		1.88	9	1.46		4.85	15	6.29	21
22		6.11	13	6.86		2.09	10	1.81	17.0	5.24	19 S	8.60	22
23	10.0	6.31	13 S	7.09	13.0	2.36	11 S	2.24	17.0	5.80	12 S	6.01	23
24		6.87	13	7.72		2.79	14	3.37		5.30	11	5.04	24
25		7.43	13	8.35	10.0	3.57	18 S	5.55	20.0	5.40	13 S	6.07	25
26	12.5	7.77	14 S	9.40	15.0	3.84	12 S	3.98		4.95	13	5.56	26
27		7.85	14	9.50		3.64	9	2.83		4.61	14	5.58	27
28		8.22	14	9.94		3.46	10	2.99		4.68	14	5.66	28
29	11.0	8.50	14 S	10.3	17.0	3.45	17 S	5.07	22.0	4.73	15 S	6.13	29
30		8.51	15	11.0		3.59	18	5.58		4.62	17	6.79	30
31						3.57	18	5.55					31
TOTAL		203.46		304.91		139.99		133.72		123.33		155.77	TOTAL
MEAN		6.78		10.2		4.52		4.31		4.11		5.19	MEAN

SOURIS RIVER AT WAWANESA - STATION NO. 05MG001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4.56	20	7.88	19.5	1.04	14 S	1.26	18.0	4.44	74 S	28.4	1
2	25.0	4.33	24 S	8.98		1.23	14	1.49		3.98	62	21.3	2
3		4.18	22	7.95		1.48	14	1.79		3.02	40	10.4	3
4		4.14	20	7.15	27.0	1.42	15 S	1.84		2.48	31	6.64	4
5		3.90	18	6.07		1.64	18	2.55		2.09	25	4.51	5
6	30.0	3.58	18 S	5.57		1.77	22	3.36	20.0	2.06	22 S	3.92	6
7		3.05	18	4.74	25.0	1.66	22 S	3.16		1.94	21	3.52	7
8		2.61	18	4.06		1.36	16	1.88		1.78	18	2.77	8
9	25.0	2.31	19 S	3.79		1.45	12	1.50	21.0	1.66	17 S	2.44	9
10		2.15	19	3.53	25.0	1.48	12 S	1.53		1.58	17	2.32	10
11		2.56	17	3.76		1.48	12	1.53		1.50	16	2.07	11
12		2.42	15	3.14		1.51	12	1.57		1.43	16	1.98	12
13	26.0	2.88	14 S	3.48	28.5	1.44	12 S	1.49		1.46	15	1.89	13
14		2.46	14	2.98		1.34	12	1.39	18.0	1.42	15 S	1.84	14
15		2.20	13	2.47		1.23	12	1.28		1.34	15	1.74	15
16		2.16	13	2.43		1.13	12	1.17		1.29	14	1.56	16
17	24.0	2.05	12 S	2.13	26.0	1.08	12 S	1.12		1.23	14	1.49	17
18		1.88	12	1.95		1.02	12	1.06		1.23	13	1.38	18
19		1.74	12	1.80		0.949	13	1.07	15.0	1.25	13 S	1.40	19
20	25.0	1.55	11 S	1.47	25.0	0.903	30 S	2.34		1.21	13	1.36	20
21		1.46	11	1.39		0.892	40	3.08		1.22	13	1.37	21
22		1.32	12	1.37		1.28	43	4.76		1.20	14	1.45	22
23		1.18	12	1.22		3.79	45	14.7	15.0	1.21	15 S	1.57	23
24	21.0	1.05	13 S	1.18	20.0	5.49	46 S	21.8		1.18	16	1.63	24
25		1.02	13	1.15		5.12	49	21.7		1.36	18	2.12	25
26		0.984	12	1.02		3.86	49	16.3		1.67	17	2.45	26
27		1.02	12	1.06	23.0	2.89	49 S	12.2	10.0	2.18	16 S	3.01	27
28	22.0	0.961	11 S	0.91		2.40	47	9.75	9.5	2.69	11 S	2.56	28
29	24.0	0.958	11 S	0.91		2.15	40	7.43		2.19	11	2.08	29
30		1.05	12	1.09		2.07	30	5.37		2.02	11	1.92	30
31		1.12	14	1.35	21.0	4.95	34 S	14.5					31
TOTAL		68.833		97.98		61.504		165.97		55.31		123.09	TOTAL
MEAN		2.22		3.16		1.98		5.35		1.84		4.10	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.95	11	1.85		1.19	50	5.14		1.44 B	8	1.00	1
2		1.85	11	1.76		1.19	60	6.17		1.29 B	8	0.89	2
3		1.85	11	1.76	7.0	1.21	61 S	6.38		1.35 B	8	0.93	3
4		1.99	12 S	2.06	2.0	1.21	15 S	1.57		1.11 B	7	0.67	4
5		2.04	12	2.12		1.23	7	0.74		0.954 B	7	0.58	5
6		2.01	11	1.91		1.24	7	0.75		1.06 B	7	0.64	6
7		1.88	9	1.46		1.17	7	0.71		0.940 B	7	0.57	7
8		1.75	8	1.21		1.57	7	0.95		0.740 B	6	0.38	8
9		1.68	7 S	1.02	4.0	2.16	7 S	1.31	0.5	0.560 B	6 S	0.29	9
10		1.64	7	0.99		2.22	7	1.34		0.471 B	6	0.24	10
11		1.58	7	0.96		2.31	7	1.40		0.502 B	6	0.26	11
12		1.63	9	1.27	5.0	2.28	7 S	1.38		0.609 B	6	0.32	12
13		1.57	10 S	1.36		2.25	7	1.36		0.523 B	6	0.27	13
14		1.59	10	1.37		2.25	8	1.56		0.445 B	6	0.23	14
15		1.76	10	1.52		2.25	9	1.75		0.385 B	5	0.17	15
16		1.70	10	1.47	4.0	2.07	10 S	1.79		0.348 B	5	0.15	16
17		1.62	10	1.40		1.93	9	1.50		0.347 B	5	0.15	17
18		1.63	10 S	1.41	2.0	1.97	9 S	1.53		0.320 B	5	0.14	18
19		1.70	10	1.47		1.85 B	9	1.44		0.297 B	5	0.13	19
20		1.56	10	1.35		1.44 B	9	1.12		0.325 B	5	0.14	20
21		1.42	10	1.23		1.50 B	9	1.17		0.376 B	5	0.16	21
22		1.33	10	1.15		1.58 B	9	1.23	0.5	0.403 B	5 S	0.17	22
23		1.25	14	1.51		1.62 B	9	1.26		0.431 B	5	0.19	23
24		1.18	28 S	2.85		1.50 B	9	1.17		0.465 B	5	0.20	24
25		1.14	37	3.64		1.44 B	9	1.12		0.476 B	5	0.21	25
26		1.08	39	3.64		1.41 B	8	0.97		0.422 B	5	0.18	26
27		1.16	40	4.01		1.41 B	8	0.97		0.418 B	5	0.18	27
28		1.22	41	4.32		1.34 B	8	0.93		0.411 B	5	0.18	28
29		1.19	42 S	4.32		1.38 B	8	0.95		0.385 B	5	0.17	29
30		1.22	42	4.43		1.38 B	8	0.95		0.296 B	5	0.13	30
31		1.17	45	4.55						0.207 B	5	0.09	31
TOTAL		48.34		65.37		49.55		50.61		18.306		10.01	TOTAL
MEAN		1.56		2.11		1.65		1.69		0.590		0.32	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	23	
MAXIMUM DAILY	170	ON JAN 01
MINIMUM DAILY	5	ON DEC 15

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	6.23	
MAXIMUM DAILY	80.4	ON MAR 20
MINIMUM DAILY	0.09	ON DEC 31

TOTAL SUSPENDED SEDIMENT LOAD 2 272.29 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 36 05 N
LONG 99 40 55 W
DRAINAGE AREA 60 300 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.20 B	141	14.6		0.428 B	219	8.10		2.19 B	113	21.4	1
2		1.15 B	141	14.0		0.445 B	221	8.50		2.01 B	104	18.1	2
3		1.15 B	142	14.1		0.457 B	224	8.84		1.99 B	96	16.5	3
4		1.22 B	149	15.7		0.479 B	225	9.31		2.02 B	85	14.8	4
5		1.33 B	156	17.9		0.490 B	226	9.57		2.26 B	72	14.1	5
6		1.37 B	160	18.9		0.347 B	233	6.99		3.51 B	59	17.9	6
7		1.30 B	161	18.1		0.331 B	242	6.92		4.55 B	51	20.0	7
8		1.31 B	163	18.4		0.301 B	252	6.55		5.00 B	42	18.1	8
9		1.36 B	166	19.5		0.288 B	260	6.47		5.25 B	33	15.0	9
10		1.34 B	167	19.3		0.270 B	266	6.21	0.5	6.68 B	31 S	17.9	10
11		1.36 B	169	19.9		0.258 B	269	6.00		9.24 B	33	26.3	11
12		1.39 B	171	20.5		0.262 B	269	6.09		10.7 B	38	35.1	12
13		1.38 B	173	20.6		0.272 B	271	6.37		10.8 B	39	36.4	13
14		1.33 B	177	20.3		0.272 B	272	6.39		7.60 B	37	24.3	14
15	0.5	1.31 B	179 S	20.3		0.265 B	273	6.25		5.37 B	36	16.7	15
16		1.29 B	179	20.0		0.237 B	273	5.59		5.23 B	35	15.8	16
17		1.27 B	179	19.6		0.242 B	274	5.73		5.06 B	34	14.9	17
18		1.31 B	179	20.3	0.5	0.375 B	274 S	8.88		4.98 B	31	13.3	18
19		1.37 B	180	21.3		0.725 B	281	17.6		4.50	31 S	12.1	19
20		1.38 B	181	21.6		1.71 B	300	44.3		3.72	34	10.9	20
21		1.40 B	183	22.1		3.15 B	326	88.7		2.51	39	8.46	21
22		1.46 B	182	23.0		2.83 B	314	76.8		2.48	38	8.14	22
23		1.36 B	182	21.4		2.02 B	273	47.6		2.21	36 S	6.87	23
24		0.872 B	185	13.9		1.53 B	229	30.3		2.22	31	5.95	24
25		0.766 B	190	12.6		1.31 B	194	22.0		2.49	28 S	6.02	25
26		0.785 B	194	13.2		1.28 B	167	18.5		2.79	33	7.95	26
27		0.815 B	199	14.0		1.57 B	143	19.4		3.10	38 S	10.2	27
28		0.774 B	205	13.7		2.01 B	127	22.1		4.59	39	15.5	28
29		0.728 B	210	13.2						4.84	39	16.3	29
30		0.469 B	212	8.59						5.10	38 S	16.7	30
31		0.398 B	216	7.43					2.0	5.64	32 S	15.6	31
TOTAL		35.947		538.02		24.154		516.06		140.63		497.29	TOTAL
MEAN		1.16		17.4		0.863		18.4		4.54		16.0	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		6.50	44	24.7		8.21	30	21.3		3.50	16	4.84	1
2		6.66	41	23.6		7.68	30	19.9		3.72	16	5.14	2
3		6.62	33	18.9		7.38	30	19.1		3.73	16	5.16	3
4		6.86	31	18.4		7.44	30	19.3		3.73	16	5.16	4
5		7.10	30	18.4		7.44	30	19.3		3.58	16	4.95	5
6		7.69	34	22.6		6.66	30	17.3		3.62	15	4.69	6
7		7.49	31	20.1		2.88	27	6.72		3.51	15	4.55	7
8		7.13	30	18.5		1.70	22	3.23		3.54	15	4.59	8
9		7.22	30	18.7		1.83	20	3.16		3.51	15	4.55	9
10		7.33	31	19.6		1.86	20	3.21		3.72	15	4.82	10
11		7.06	30	18.3		1.87	20	3.23		3.88	15	5.03	11
12		7.19	31	19.3		1.63	19	2.68		4.00	15	5.18	12
13		6.56	31	17.6		1.54	18	2.40		4.54	15	5.88	13
14		6.65	30	17.2		1.67	18	2.60		5.28	15	6.84	14
15		6.66	30	17.3		1.70	18	2.64		5.04	15	6.53	15
16		6.72	30	17.4		2.28	17	3.35		5.70	15	7.39	16
17		6.81	30	17.7		2.47	17	3.63		5.59	15	7.24	17
18		6.61	30	17.1		2.64	17	3.88		5.40	14	6.53	18
19		6.91	30	17.9		3.65	17	5.36		5.56	14	6.73	19
20		7.48	32	20.7		3.99	18	6.21		5.47	14	6.62	20
21		7.96	37	25.4		3.80	17	5.58		5.26	14	6.36	21
22		8.01	31	21.5		3.17	17	4.66		5.41	14	6.54	22
23		8.29	30	21.5		3.33	17	4.89		5.63	13	6.32	23
24		8.57	31	23.0		3.70	17	5.43	18.0	5.34	13 S	6.00	24
25		8.58	32	23.7		3.69	17	5.42		5.25	14	6.35	25
26		8.45	30	21.9	12.0	3.65	17 S	5.36		5.67	16	7.84	26
27		8.16	30	21.2		3.59	17	5.27		5.50	16	7.60	27
28	11.5	8.46	30 S	21.9		3.57	17	5.24		5.28	17	7.76	28
29		8.05	31	21.6		3.31	17	4.86		5.34	20 S	9.23	29
30		7.72	30	20.0		3.66	17	5.38		4.78	16	6.61	30
31						3.73	17	5.48					31
TOTAL		221.50		605.7		115.72		226.07		140.08		183.03	TOTAL
MEAN		7.38		20.2		3.73		7.29		4.67		6.10	MEAN

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4.43	14	5.36		1.34	17	1.97		1.24	54	5.79	1
2		3.43	12	3.56		1.39	17	2.04	13.0	1.05	53 S	4.81	2
3		3.17	12	3.29		1.46	17 S	2.14		1.05	49	4.45	3
4		3.10	12	3.21		1.44	18	2.24		1.17	50 S	5.05	4
5		2.77	11	2.63		1.77	28 S	4.28		0.970	51	4.27	5
6		3.05	11	2.90		1.55	33	4.42		0.973	51	4.29	6
7		2.83	10	2.45		1.43	35 S	4.32		1.09	52 S	4.90	7
8		2.36	10	2.04		1.26	35	3.81		1.14	47	4.63	8
9		2.46	10	2.13		1.20	32	3.32		1.08	42 S	3.92	9
10		2.29	10	1.98		1.19	28 S	2.88		1.13	40	3.91	10
11		2.07	10	1.79		1.22	24	2.53		1.14	40 S	3.94	11
12		1.92	10	1.66		1.24	21 S	2.25		1.08	50	4.67	12
13		1.80	10	1.56		1.25	19	2.05		1.08	79	7.37	13
14		1.64	9	1.28		1.21	19 S	1.99		1.10	102 S	9.69	14
15		1.58	9	1.23		1.22	19	2.00		1.07	85	7.86	15
16		1.44	9	1.12		1.13	21	2.05		1.16	58 S	5.81	16
17		1.29	9	1.00		1.18	26 S	2.65		1.15	39	3.88	17
18		1.23	9	0.96		1.15	33	3.28		1.08	29 S	2.71	18
19		1.17	9	0.91		1.05	39 S	3.54		1.13	29	2.83	19
20		1.09	9	0.85		1.01	43	3.75		1.15	33	3.28	20
21		1.07	9	0.83		1.01	44 S	3.84		1.11	35 S	3.36	21
22		1.05	9	0.82		1.04	43	3.86		1.17	31	3.13	22
23		1.09	9	0.85		1.09	41	3.86		1.12	28 S	2.71	23
24		1.01	9	0.79		1.14	40 S	3.94		1.19	34	3.50	24
25		0.999	9	0.78		1.07	40	3.70		1.15	36 S	3.58	25
26		1.02	9	0.79		1.05	39 S	3.54		1.16	38	3.81	26
27		1.04	9	0.81		1.07	42	3.88		1.19	41	4.22	27
28		1.04	9	0.81		1.11	45 S	4.32		1.09	37 S	3.48	28
29		0.912	9	0.71		1.08	49	4.57		1.00	15	1.30	29
30	23.0	0.936	10 S	0.81		1.12	52	5.03		1.03	7 S	0.62	30
31		1.18	17 S	1.73		1.06	54 S	4.95					31
TOTAL		56.467		51.64		37.53		103.00		33.243		127.77	TOTAL
MEAN		1.82		1.67		1.21		3.32		1.11		4.26	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	9.5	1.12	7 S	0.68		0.999	7	0.60		0.440 B	7	0.27	1
2		1.12	7	0.68		1.04	7	0.63		0.416 B	7	0.25	2
3		0.813	5	0.35		1.03	7	0.62		0.413 B	7	0.25	3
4		0.925	5	0.40	8.0	0.978	7 S	0.59		0.303 B	7	0.18	4
5		0.920	5	0.40		1.04	7	0.63		0.188 B	7	0.11	5
6		0.973	5	0.42		0.968	7	0.59		0.119 B	7	0.07	6
7		1.08	6	0.56		0.797	7	0.48		0.068 B	6	0.04	7
8		0.999	5	0.43		0.961	7	0.58	0.5	0.046 B	6 S	0.02	8
9		1.02	5	0.44		1.11	7	0.67		0.037 B	6	0.02	9
10		1.06	5	0.46		0.918	7	0.56		0.030 B	6	0.02	10
11		1.22	9	0.95		0.867	7	0.52		0.028 B	5	0.01	11
12		0.972	7	0.59		0.827	7	0.50		0.022 B	5	0.01	12
13		0.939	7	0.57		0.789	7	0.48		0.018 B	5	0.01	13
14		0.800	7	0.48		0.819	7	0.50		0.016 B	5	0.01	14
15		0.849	7	0.51		0.804	7	0.49		0.013 B	5	0.01	15
16		0.812	7	0.49		0.758	7	0.46		0.010 B	5	0	16
17		1.13	9	0.88		0.716	7	0.43		0.006 B	4	0	17
18		0.819	7	0.50		0.715	7	0.43		0.005 B	4	0	18
19		0.940	7	0.57		0.909 B	11	0.86		0.004 B	3	0	19
20		0.936	7	0.57		0.963 B	11	0.92		0.003 B	3	0	20
21		0.882	7	0.53		1.14 B	14	1.38		0.002 B	2	0	21
22		0.913	7	0.55		1.15 B	14	1.39		0.002 B	2	0	22
23		1.13	7	0.68		1.11 B	12	1.15		0.001 B	1	0	23
24		0.958	7	0.58		0.720 B	10	0.62		0 B	0	0	24
25		1.09	7	0.66		0.492 B	9	0.38		0 B	0	0	25
26		1.09	7	0.66		0.455 B	9	0.35		0 B	0	0	26
27		0.926	7	0.56		0.442 B	9	0.34		0 B	0	0	27
28		1.15	7	0.70		0.414 B	8	0.29		0 B	0	0	28
29		1.16	7	0.70		0.406 B	7	0.25		0 B	0	0	29
30		1.31	8	0.91		0.411 B	7	0.25		0 B	0	0	30
31		1.04	7	0.63						0 B	0	0	31
TOTAL		31.096		18.09		24.748		17.94		2.190		1.28	TOTAL
MEAN		1.00		0.58		0.825		0.60		0.071		0.04	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 2 885.89 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	39	
MAXIMUM DAILY	326	ON FEB 21
MINIMUM DAILY	0	ON DEC 24

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	7.91	
MAXIMUM DAILY	88.7	ON FEB 21
MINIMUM DAILY	0	ON DEC 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 27 N
LONG 100 57 12 W
DRAINAGE AREA 43 300 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0.009 B	1	0	10
11										0.015 B	4	0.01	11
12										0.098 B	10	0.08	12
13										0.470 B	13	0.53	13
14										0.633 B	16	0.88	14
15										0.732 B	15	0.95	15
16										0.761 B	14	0.92	16
17										0.749 B	14	0.91	17
18										0.708 B	13	0.80	18
19										0.697 B	13	0.78	19
20										0.691 B	13	0.78	20
21										0.685 B	13	0.77	21
22										0.668 B	13	0.75	22
23										0.680 B	14	0.82	23
24										0.697 B	16	0.96	24
25										0.761 B	18	1.18	25
26										0.854 B	21	1.55	26
27										0.930 B	24	1.93	27
28										1.12 B	34	3.29	28
29										1.29 B	50	5.57	29
30										2.25 B	68	13.2	30
31									0.5	4.66 B	84 S	33.8	31
TOTAL										20.158		70.46	TOTAL
MEAN										0.650		2.27	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.5	5.64 B	76 S	37.0	10.0	1.66	45 S	6.45		4.62	83	33.1	1
2	0.5	5.43 B	68 S	31.9		1.64	46	6.52		3.62	51	16.0	2
3	0.5	5.10 B	81 S	35.7		1.54	44	5.85	17.0	2.98	26 S	6.69	3
4	5.0	4.91 B	80 S	33.9		1.53	42	5.55	17.0	2.45	60 S	12.7	4
5	4.0	4.73 B	56 S	22.9		1.61	38	5.29		2.67	96	22.1	5
6	5.0	4.58 B	92 S	36.4		1.51	33	4.31	15.0	2.35	48 S	9.75	6
7	4.0	4.42 B	161 S	61.5		1.32	29	3.31		1.92	36	5.97	7
8	5.0	4.30 B	179 S	66.5	8.0	1.25	26 S	2.81	15.0	1.60	28 S	3.87	8
9	5.0	4.21 B	97 S	35.3		1.16	24	2.41		1.54	52	6.92	9
10		4.17 B	84	23.1		1.05	23	2.09		1.55	81	10.8	10
11		4.14 B	58	20.7		0.976	21	1.77		1.60	81	11.2	11
12		4.09 B	61	21.6		0.977	19	1.60		1.36	65	7.68	12
13		3.92 B	70	23.7	12.5	0.961	18 S	1.49		1.10	56	5.32	13
14		3.75 B	82	26.6	15.0	0.944	16 S	1.30		1.48	348	44.5	14
15	9.0	3.60 B	95 S	29.5		0.913	16	1.26		8.34	842	607	15
16		3.54 B	104	31.8		0.917	16	1.27		14.0	488	590	16
17		3.45 B	110	32.8		0.877	16	1.21		8.38	178	129	17
18		2.43 B	116	24.4		0.844	16	1.17	13.0	12.8	414 S	458	18
19		1.92 B	118	19.6		0.825	15	1.07		9.57	409	338	19
20		1.64 B	100	14.2		0.798	16	1.10		5.94	285	146	20
21		1.21 B	53	5.54	16.0	0.768	33 S	2.19		5.61	196	95.0	21
22		0.922 E	31	2.47	12.0	2.80	968 S	234	18.0	5.46	100 S	47.2	22
23	8.0	1.21 E	21 S	2.20	8.0	13.1	1 080 S	1 220	16.0	6.32	155 S	84.6	23
24		1.29 E	22	2.45	8.0	12.0	442 S	458	15.0	6.54	203 S	115	24
25		1.42	22	2.70	10.0	10.9	348 S	328		5.84	194	97.9	25
26		1.60	22	3.04		8.46	260	190		4.20	167	60.6	26
27		1.59	23	3.16	13.0	5.77	137 S	68.3		3.36	150	43.5	27
28		1.59	24	3.30	18.0	4.55	119 S	46.8		2.74	136	32.2	28
29	9.5	1.53	28 S	3.70	14.0	10.9	562 S	529	17.0	2.35	126 S	25.6	29
30		1.55	36	4.82	15.0	11.3	182 S	178		2.06	118	21.0	30
31						6.48	113	63.3					31
TOTAL		93.882		662.48		110.330		3 375.42		134.35		3 087.16	TOTAL
MEAN		3.13		22.1		3.56		109		4.48		103	MEAN

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.77	111	17.0		0.513	15	0.66		0.730	38	2.40	1
2		1.50	105	13.6		0.449	14	0.54		0.543	34	1.60	2
3		1.34	98	11.3		0.472	17	0.69		0.401	30	1.04	3
4		1.19	92	9.46		0.811	37	2.59		0.322	26	0.72	4
5		0.988	85	7.26		1.05	28	2.54		0.301	23	0.60	5
6	21.0	0.861	79 S	5.88	20.0	1.41	29 S	3.53		0.256 A	20	0.44	6
7		0.771	73	4.86		1.28	30	3.32	14.0	0.227 A	19 S	0.37	7
8		0.876	74	5.60		0.912	27	2.13		0.214 A	17	0.31	8
9		1.04	69	6.20		0.793	24	1.64	21.0	0.197 A	15 S	0.26	9
10		0.886	64	4.90		0.692	22	1.32		0.184	15	0.24	10
11		0.813	58	4.07		0.651	20	1.12		0.167	17	0.25	11
12		0.699	51	3.08		0.549	18	0.85		0.172	18	0.27	12
13	19.0	0.612	44 S	2.33	19.0	0.460	17 S	0.68		0.139	20	0.24	13
14		0.576	43	2.14		0.401	19	0.66	15.0	0.113	21 S	0.21	14
15		0.696	50	3.01		0.363	21	0.66		0.120	21	0.22	15
16	18.0	1.62	78 S	10.9		0.335	22	0.64		0.133	21	0.24	16
17		1.58	69	9.42		0.309	24	0.64		0.138	21	0.25	17
18		1.10	59	5.61	20.0	0.297	25 S	0.64		0.127	21	0.23	18
19		0.853	49	3.61		0.315	25	0.68		0.119	21	0.22	19
20		0.786	38	2.58		0.317	25	0.68		0.106	21	0.19	20
21		0.718	25	1.55		0.311	25	0.67	13.0	0.112	21 S	0.20	21
22	24.0	0.637	13 S	0.72		0.307	25	0.66		0.152	23	0.30	22
23		0.594	10	0.51		0.276	25	0.60		0.172	23	0.34	23
24		0.730	20	1.26		0.265	25	0.57		0.167	23	0.33	24
25		0.763	22	1.45		0.288	25	0.62		0.177	27	0.41	25
26		0.646	22	1.23		0.295	25	0.64		0.975	37	3.12	26
27		0.576	19	0.95	17.0	0.286	24 S	0.59		1.50	34	4.41	27
28	18.0	0.471	17 S	0.69		0.280	25	0.60	7.0	1.23	26 S	2.76	28
29		0.404	14	0.49		0.365	26	0.82		0.833	22	1.58	29
30		0.388	18	0.60		0.233	28	0.56		0.728	23	1.45	30
31		0.522	17	0.77	16.0	0.504	36 S	1.57					31
TOTAL		27.006		143.03		15.789		34.11		10.755		25.20	TOTAL
MEAN		0.871		4.61		0.509		1.10		0.358		0.84	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.824	24	1.71									1
2		0.786	23	1.56									2
3		0.657	24	1.36									3
4		0.635	24	1.32									4
5	9.0	0.631	23 S	1.25									5
6		0.632	21	1.15									6
7		0.607	19	1.00									7
8		0.540	17	0.79									8
9		0.509	15	0.66									9
10		0.493	12	0.51									10
11		0.473	10	0.41									11
12		0.497	8	0.34									12
13	9.0	0.761	6 S	0.39									13
14		0.867	5	0.37									14
15		0.849	5	0.37									15
16		0.740	4	0.26									16
17		0.753	7	0.46									17
18		1.08	8	0.75									18
19		1.08	6	0.56									19
20		0.992	6	0.51									20
21		0.965	6	0.50									21
22		0.962	5	0.42									22
23		0.964	5	0.42									23
24		0.960	5	0.41									24
25		0.957	5	0.41									25
26		0.871	4	0.30									26
27		0.765	4	0.26									27
28		0.744	4	0.26									28
29		0.720	5	0.31									29
30		0.781	6	0.40									30
31		0.844	6	0.44									31
TOTAL		23.939		19.86									TOTAL
MEAN		0.772		0.64									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	197	
MAXIMUM DAILY	1 080	ON MAY 23
MINIMUM DAILY	0	ON MAR 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	30.3	
MAXIMUM DAILY	1 220	ON MAY 23
MINIMUM DAILY	0	ON MAR 01

TOTAL SUSPENDED SEDIMENT LOAD 7 817.72 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 56 40 N
LONG 99 31 15 W
DRAINAGE AREA 974 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000
MAY 23	08:00	13.1 H	8.0	405 K	25	35	53	72	83	85	88	97	98	100	BNW
JUN 18	17:00	12.8 H	15.0	417 K	16	25	45	65	74	77	82	91	96	98	BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.227 B	5	0.10	1
2										0.231 B	5	0.10	2
3										0.235 B	5	0.10	3
4										0.235 B	5	0.10	4
5										0.239 B	5	0.10	5
6										0.239 B	5	0.10	6
7										0.243 B	5	0.10	7
8										0.243 B	5	0.10	8
9										0.248 B	5	0.11	9
10										0.252 B	5	0.11	10
11										0.260 B	5	0.11	11
12										0.281 B	5	0.12	12
13										0.310 B	5	0.13	13
14										0.349 B	5	0.15	14
15										0.376 B	5	0.16	15
16										0.399 B	5	0.17	16
17										0.395 B	5	0.17	17
18										0.381 B	5	0.16	18
19										0.376 B	5	0.16	19
20										0.372 B	5	0.16	20
21										0.381 B	5	0.16	21
22										0.702 B	7	0.42	22
23										1.30 B	9	1.01	23
24										2.67 B	11	2.54	24
25										3.31 B	13	3.72	25
26										3.90 B	15	5.05	26
27										4.79 B	25	10.3	27
28										5.50 B	45	21.4	28
29										6.09 B	60	31.6	29
30										6.90 B	70	41.7	30
31										7.19 B	75	46.6	31
TOTAL										48.624		167.01	TOTAL
MEAN										1.57		5.39	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		6.41 B	65	36.0		1.44	11	1.37		1.74	60	9.02	1
2		5.41 B	55	25.7	11.0	1.51	11 S	1.44		1.78	56	8.61	2
3		4.40 B	45	17.1		1.59	13	1.79		1.80	53	8.24	3
4	2.0	3.90 B	35 S	11.8		1.73	14	2.09		1.63	50	7.04	4
5	3.0	3.50 B	22 S	6.65		1.60	12	1.66		1.52	47	6.17	5
6		3.00 B	27	7.00		1.50	12	1.56		1.35	43	5.02	6
7	4.0	2.80 E	32	7.74	15.0	1.43	12	1.48		1.27	39	4.28	7
8		2.60 E	37	8.31		1.55	13	1.74		1.15	36	3.58	8
9	2.0	2.30 E	43 S	8.54		1.48	12	1.53		1.14	32	3.15	9
10		2.18 E	30	5.65		1.32	12	1.37		1.08	29	2.71	10
11	1.0	2.11 E	13 S	2.37		1.23	12	1.28		1.03	25	2.22	11
12		2.02 E	19	3.32	14.0	1.20	12	1.24		0.968	20	1.67	12
13	3.0	1.96 E	22	3.73		1.18	12	1.22		0.879	16	1.22	13
14		1.90 E	25	4.10		1.11	12	1.15	20.0	0.875	12 S	0.91	14
15		1.86 A	27 S	4.34		1.03	11	0.98		0.877	12	0.91	15
16		1.68	18	2.61		1.21	11	1.15		0.903	11	0.86	16
17	2.0	1.60	12 S	1.66	13.0	1.17	12	1.21		0.945	9	0.73	17
18		1.29	11	1.23		1.05	12	1.09	21.0	1.12	8 S	0.77	18
19		1.40	11	1.33		0.977	11	0.93		1.27	7	0.77	19
20	7.0	1.33	11 S	1.26		0.891	11	0.85		1.39	7	0.84	20
21		1.38	12	1.43	14.0	0.868	10	0.75		1.38	8	0.95	21
22	6.0	1.33	15 S	1.72		0.882	9	0.69		1.36	7	0.82	22
23		1.26	15	1.63		1.01	10	0.87	20.0	1.37	6 S	0.71	23
24		1.21	15	1.57		0.990	10	0.86		1.36	7	0.82	24
25	5.0	1.20	15 S	1.56		1.01	11	0.96		1.34	7	0.81	25
26		1.26	14	1.52		1.03	10	0.89		1.24	7	0.75	26
27	14.0	1.26	13 S	1.42		0.972	10	0.84		1.25	6	0.65	27
28		1.26	12	1.31		0.916	9	0.71	23.0	1.25	6 S	0.65	28
29		1.24	12	1.29	16.0	1.56	34 S	4.58		1.20	7	0.73	29
30		1.36	12	1.41		2.21	65	12.4		1.14	7	0.69	30
31						1.95	63	10.6					31
TOTAL		66.41		175.30		39.596		61.28		37.607		76.30	TOTAL
MEAN		2.21		5.84		1.28		1.98		1.25		2.54	MEAN

MANITOBA

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	26.0	1.16	8 S	0.80	23.0	0.411	15 S	0.53		0.129	7	0.08	1
2		1.14	8	0.79		0.414	14	0.50	22.0	0.116	7 S	0.07	2
3	24.5	15.9	147 S	202		0.380	15	0.49		0.100	7	0.06	3
4	24.0	39.1	357 S	1 210		0.369	16	0.51		0.081	7	0.05	4
5	24.0	14.4	129 S	160		0.367	17	0.54		0.077	6	0.04	5
6		6.26	78	42.2	24.0	0.397	18 S	0.62		0.077	6	0.04	6
7		3.39	41	12.0		0.422	17	0.62		0.070	5	0.03	7
8	21.0	2.24	23 S	4.45		0.425	17	0.62		0.064	5	0.03	8
9		1.64	23	3.26		0.370	16	0.51		0.057	4	0.02	9
10	20.0	1.10	24	2.28	22.0	0.415	14 S	0.50		0.049	4 S	0.02	10
11		0.946	25	2.04		0.352	11	0.33		0.036	4	0.01	11
12		0.775	26	1.74		0.311	10	0.27		0.028	4	0.01	12
13		0.580	26	1.30		0.275	9	0.21		0.022	5	0.01	13
14		0.506	26	1.14		0.255	8	0.18		0.019	5	0.01	14
15		0.544	26	1.22		0.226	6	0.12		0.019	5	0.01	15
16		0.510	26	1.15	24.0	0.200	4 S	0.07		0.017	5	0.01	16
17		0.512	26	1.15		0.177	4	0.06		0.015	5	0.01	17
18		0.472	25	1.02		0.175	4	0.06		0.011	5	0	18
19		0.492	25	1.06		0.196	4	0.07		0.007	5	0	19
20		0.520	25	1.12		0.166	4	0.06		0.005	5	0	20
21	23.0	0.535	23 S	1.06		0.150	4	0.05		0.009	5	0	21
22		0.497	21	0.90		0.148	4	0.05		0.016	5	0.01	22
23		0.587	19	0.96		0.150	4	0.05		0.019	5	0.01	23
24		0.681	17	1.00	24.0	0.122	4 S	0.04		0.016	5	0.01	24
25		0.692	15	0.90		0.114	4	0.04		0.017	6	0.01	25
26		0.608	13	0.68		0.340	5	0.15		0.054	6	0.03	26
27		0.526	11	0.50		0.303	5	0.13		0.052	6	0.03	27
28		0.470	9	0.37		0.228	6	0.12		0.043	6	0.02	28
29		0.430	8 S	0.30		0.166	6	0.09		0.048	6	0.02	29
30		0.431	9	0.34	25.0	0.151	6 S	0.08		0.068	6	0.04	30
31		0.427	13	0.48		0.150	7	0.09					31
TOTAL		98.071		1 658.21		8.325		7.76		1.341		0.69	TOTAL
MEAN		3.16		53.5		0.268		0.25		0.045		0.02	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	25.0	0.047	6 S	0.02									1
2		0.060	6	0.03									2
3		0.062	6	0.03									3
4		0.059	5	0.03									4
5		0.053	5	0.02									5
6		0.046	5	0.02									6
7		0.039	4	0.01									7
8		0.037	4 S	0.01									8
9		0.033	4	0.01									9
10		0.019	4	0.01									10
11		0.018	4	0.01									11
12		0.031	4	0.01									12
13		0.037	4	0.01									13
14		0.036	4	0.01									14
15		0.033	4 S	0.01									15
16		0.031	4	0.01									16
17		0.038	4	0.01									17
18		0.037	4	0.01									18
19		0.028	4	0.01									19
20		0.027	4	0.01									20
21		0.029	4	0.01									21
22		0.028	4	0.01									22
23		0.028	4	0.01									23
24		0.110	4	0.04									24
25		0.122	4	0.04									25
26		0.121	4	0.04									26
27		0.124	3	0.03									27
28		0.232	3	0.06									28
29	10.0	0.228	3 S	0.06									29
30		0.233	4	0.08									30
31		0.268	4	0.09									31
TOTAL		2.294		0.76									TOTAL
MEAN		0.074		0.02									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	82	
MAXIMUM DAILY	357	ON JUL 04
MINIMUM DAILY	3	ON OCT 27

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	8.76	
MAXIMUM DAILY	1 210	ON JUL 04
MINIMUM DAILY	0	ON SEP 18

TOTAL SUSPENDED SEDIMENT LOAD 2 147.31 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 16 45 N
LONG 100 00 39 W
DRAINAGE AREA 2 870 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUL 04	11:30	39.1 H	22.0	433 K	61	72	86	93	97	98	99	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MANITOBA

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.160 B	10	0.14	1
2										0.170 B	10	0.15	2
3										0.180 B	10	0.16	3
4										0.191 B	10	0.17	4
5										0.200 B	10	0.17	5
6										0.215 B	10	0.19	6
7										0.230 B	10	0.20	7
8										0.245 B	10	0.21	8
9										0.260 B	10	0.22	9
10										0.275 B	10	0.24	10
11										0.260 B	10	0.22	11
12										0.245 B	10	0.21	12
13										0.230 B	10	0.20	13
14										0.215 B	10	0.19	14
15										0.250 B	10	0.22	15
16										0.300 B	10	0.26	16
17										0.280 B	10	0.24	17
18										0.260 B	10	0.22	18
19										0.300 B	10	0.26	19
20										0.350 B	10	0.30	20
21										0.400 B	10	0.35	21
22										0.500 B	10	0.43	22
23										0.642 B	10	0.55	23
24										1.50 B	20	2.59	24
25										1.70 B	50	7.34	25
26										1.80 B	90	14.0	26
27										1.90 B	140	23.0	27
28										1.95 B	200	33.7	28
29										2.00 B	250	43.2	29
30										2.05 B	300	53.1	30
31									0.1	2.10 B	325 S	59.0	31
TOTAL										21.358		241.43	TOTAL
MEAN										0.689		7.79	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.1	2.05 B	345 S	61.1		1.11	20	1.92	16.0	5.54	309 S	148	1
2	0.1	2.00 B	297 S	51.3		1.26	23	2.50	19.0	3.94	199 S	67.7	2
3	1.0	1.95 B	334 S	56.3	13.0	1.27	17 S	1.87		2.88	148	36.8	3
4	3.0	1.90 B	217 S	35.6		1.32	15	1.71		2.13	118	21.7	4
5	3.0	2.40 B	139 S	28.8		1.27	14	1.54		1.76	99	15.1	5
6		2.34 B	120	24.3	14.0	1.25	13 S	1.40	17.0	1.55	82 S	11.0	6
7		2.28 B	105	20.7		1.22	14	1.48		1.37	75	8.88	7
8	4.0	2.22 A	99 S	19.0		1.13	15	1.46		1.18	68	6.93	8
9		2.01	92	16.0		0.987	14	1.19		1.11	60	5.75	9
10		1.90	86	14.1	12.0	0.901	12 S	0.93		0.987	53	4.52	10
11	3.0	1.74	74 S	11.1		0.831	11	0.79		0.940	44	3.57	11
12		1.47	73	9.27		0.974	34	2.86	22.0	0.875	36 S	2.72	12
13		1.58	70	9.56	17.0	0.891	20 S	1.54		0.761	31	2.04	13
14	3.0	1.54	59 S	7.85		0.731	17	1.07		0.741	30	1.92	14
15		1.45	51 S	6.39		0.640	19	1.05		1.11	60	5.75	15
16		1.42	44	5.40		0.547	18	0.85	15.0	7.51	580 S	376	16
17		1.38	38	4.53		0.491	19	0.81	17.0	7.82	329 S	222	17
18		1.37	34	4.02	19.0	0.466	17 S	0.68	14.0	8.79	368 S	279	18
19	7.0	1.32	32 S	3.65		0.487	16	0.67		8.93	320 S	247	19
20		1.29	31	3.46		0.490	16	0.68	17.0	6.70	229 S	133	20
21		1.32	30	3.42		0.530	16	0.73	17.0	4.25	173 S	63.5	21
22	5.0	1.23	28 S	2.98		0.767	32	2.12	18.0	3.18	130 S	35.7	22
23		1.24	27	2.89		1.02	83	7.31	18.0	3.01	145 S	37.7	23
24		1.15	26	2.58	9.0	3.18	182 S	50.0	18.0	5.42	493 S	231	24
25		1.09	25	2.35	13.0	4.60	234 S	93.0	18.0	4.99	758 S	327	25
26	8.0	1.07	24 S	2.22		4.47	212	81.9		3.10	209	56.0	26
27		1.08	22	2.05		3.55	168	51.5	20.0	2.25	91 S	17.7	27
28		1.10	21	2.00		2.74	136	32.2		1.79	66	10.2	28
29	9.0	1.10	20 S	1.90		3.29	194	55.1		1.45	49	6.14	29
30		1.10	20	1.90	13.5	10.7	1 060 S	980	24.0	1.25	37 S	4.00	30
31					15.0	8.30	535 S	384					31
TOTAL		47.09		416.72		61.413		1 764.86		97.314		2 188.32	TOTAL
MEAN		1.57		13.9		1.98		56.9		3.24		79.6	MEAN

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.03	28	2.49	25.0	0.002	9 S	0	15.0	0	0	0	1
2		0.878	22	1.67		0.011	8	0.01		0	0	0	2
3	27.0	0.728	18 S	1.13		0.033	7	0.02		0	0	0	3
4		0.617	17	0.91		0.033	7	0.02		0	0	0	4
5		0.538	17	0.79		0.076	7	0.05		0	0	0	5
6		0.448	16	0.62	25.0	0.156	6 S	0.08		0.001	0	0	6
7		0.377	15	0.49		0.118	6	0.06		0.006	0	0	7
8	25.0	0.231	14 S	0.28		0.097	6	0.05	16.0	0.008	0	0	8
9		0.136	14	0.16		0.047	5	0.02		0.010	0	0	9
10		0.173	15	0.22	25.0	0.108	5	0.05		0.015	0	0	10
11		0.211	15	0.27		0.050	5	0.02		0.007	0	0	11
12		0.221	14	0.27		0.019	5	0.01		0	0	0	12
13	28.0	0.236	12 S	0.24		0.012	5	0.01		0	0	0	13
14		0.270	11	0.26		0.030	5	0.01		0	0	0	14
15		0.366	10	0.32		0.037	5	0.02		0	0	0	15
16	18.0	0.378	10 S	0.33	24.0	0.042	5	0.02		0	0	0	16
17		0.302	14	0.37		0.052	4	0.02	15.0	0	0	0	17
18		0.288	24	0.60		0.061	3	0.02		0	0	0	18
19		0.323	34	0.95		0.046	3	0.01		0	0	0	19
20		0.304	36	0.95		0.036	2	0.01		0	0	0	20
21		0.255	28	0.62		0.015	1	0		0	0	0	21
22	20.0	0.235	20 S	0.41		0.002	1	0		0	0	0	22
23		0.221	14	0.27		0	0	0		0	0	0	23
24		0.209	13	0.23	23.0	0	0	0		0	0	0	24
25		0.199	14	0.24		0	0	0		0	0	0	25
26		0.190	15	0.25		0	0	0		0.156	5	0.07	26
27	25.0	0.163	17 S	0.24		0	0	0		0.019	9	0.01	27
28	25.0	0.079	18	0.12		0	0	0		0	9	0	28
29		0.043	15	0.06		0	0	0		0	9	0	29
30		0.044	13	0.05		0	0	0		0.202	9	0.16	30
31		0.046	11	0.04		0	0	0					31
TOTAL		9.739		15.85		1.083		0.51		0.424		0.24	TOTAL
MEAN		0.314		0.51		0.035		0.02		0.014		0.01	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.338	8	0.23									1
2	9.0	0.323	8 S	0.22									2
3		0.320	8	0.22									3
4		0.130	8	0.09									4
5		0.175	9	0.14									5
6		0.196	9	0.15									6
7		0.208	9	0.16									7
8	8.0	0.253	9 S	0.20									8
9		0.309	8	0.21									9
10		0.267	8	0.18									10
11		0.269	7	0.16									11
12		0.279	7	0.17									12
13	9.0	0.314	6 S	0.16									13
14		0.374	7	0.23									14
15		0.357	7	0.22									15
16		0.381	8	0.26									16
17		0.464	8	0.32									17
18		0.472	8	0.33									18
19		0.483	8	0.33									19
20		0.584	8	0.40									20
21		0.530	8	0.37									21
22		0.521	8	0.36									22
23		0.523	8	0.36									23
24		0.522	9	0.41									24
25		0.515	9	0.40									25
26		0.483	9	0.38									26
27		0.435	9	0.34									27
28		0.426	9	0.33									28
29		0.433	9	0.34									29
30		0.431	9	0.34									30
31		0.473	9	0.37									31
TOTAL		11.788		9.38									TOTAL
MEAN		0.380		0.27									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	224	
MAXIMUM DAILY	1 060	ON MAY 30
MINIMUM DAILY	0	ON AUG 23

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	19.7	
MAXIMUM DAILY	980	ON MAY 30
MINIMUM DAILY	0	ON AUG 01

TOTAL SUSPENDED SEDIMENT LOAD 4 836.31 t

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 11 00 N
LONG 100 00 45 W
DRAINAGE AREA 673 km^2
REGULATED FLOW SINCE 1979

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 01	12:25	2.05N	0.1	306 K	33	42	63	79	87	92	97	99	100			BNW
APR 03	16:05	1.95N	0.5	362 K	31	42	58	82	92	95	98	100				BNW
MAY 30	15:25	10.7 N	13.5	1 010 K	29	35	56	75	89	94	99	100				BNW
JUN 16	10:40	7.51N	15.0	713 K	21	31	50	77	89	95	98	100				BNW
JUN 24	20:55	5.42N	17.0	1 540 K	56	68	87	97	99	99	100					BNW

N - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.272 B	5	0.12	1
2										0.280 B	5	0.12	2
3										0.285 B	5	0.12	3
4										0.290 B	5	0.13	4
5										0.295 B	5	0.13	5
6													
7										0.300 B	5	0.13	6
8										0.305 B	5	0.13	7
9										0.308 B	5	0.13	8
10										0.312 B	5	0.13	9
										0.316 B	5	0.14	10
11													
12										0.320 B	5	0.14	11
13										0.330 B	5	0.14	12
14										0.345 B	5	0.15	13
15										0.355 B	5	0.15	14
										0.360 B	5	0.16	15
16													
17										0.370 B	5	0.16	16
18										0.330 B	5	0.14	17
19										0.305 B	5	0.13	18
20										0.295 B	5	0.13	19
										0.287 B	5	0.12	20
21													
22										0.282 B	5	0.12	21
23										0.280 B	5	0.12	22
24										0.300 B	5	0.13	23
25										0.350 B	5	0.15	24
										0.580 B	5	0.25	25
26													
27										0.698 B	5	0.30	26
28										1.08 B	10	0.93	27
29										1.64 B	20	2.83	28
30										1.90 B	40	6.57	29
31										2.11 B	80	14.6	30
									0.1	2.38 B	84 S	17.3	31
TOTAL										17.860		46.00	TOTAL
MEAN										0.576		1.48	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.1	2.31 B	88 S	17.6		0.475	8	0.33		5.80	58	29.1	1
2	0.1	2.24 B	81 S	15.7		0.501	7	0.30		4.08	47	16.6	2
3	1.0	2.11 B	70 S	12.8	13.0	0.518	5 S	0.22		2.98	36	9.27	3
4	1.0	2.04 B	54 S	9.52		0.539	4	0.19		2.23	27	5.20	4
5	0.5	1.94 B	59 S	9.89		0.524	5	0.23		1.73	19	2.84	5
6		1.80 B	50	7.78		0.471	5	0.20	20.0	1.33	13 S	1.49	6
7		1.70 B	38	5.58	15.0	0.442	5 S	0.19		1.11	10	0.96	7
8	4.0	1.77	28 S	4.28		0.482	5	0.21		0.902	10	0.78	8
9		1.40	24	2.90		0.417	6	0.22		0.755	9	0.59	9
10		1.31	23	2.60	12.0	0.382	6 S	0.20		0.627	8	0.43	10
11	3.0	1.13	20 S	1.95		0.321	6	0.17		0.499	9	0.39	11
12		0.974	17	1.43		0.265	5	0.11	22.0	0.415	8	0.29	12
13		0.850	16	1.18	18.0	0.234	5 S	0.10		0.361	8	0.25	13
14		0.788	13	0.89		0.205	5	0.09		0.402	8	0.28	14
15		0.814	12 S	0.84		0.170	5	0.07		0.505	8	0.35	15
16		0.737	13	0.83		0.166	5	0.07		0.659	10	0.57	16
17		0.701	14	0.85		0.130	5	0.06		4.38	47	17.8	17
18		0.674	14	0.82	18.0	0.128	5 S	0.06		4.46	46	17.7	18
19	7.0	0.679	13 S	0.76		0.124	5	0.05		5.29	48 S	21.9	19
20		0.639	15	0.83		0.111	5	0.05	17.0	4.30	42 S	15.6	20
21		0.563	16	0.78		0.145	5	0.06	17.0	2.98	27 S	6.95	21
22	5.0	0.519	17 S	0.76		0.169	6	0.09	19.0	2.35	15 S	3.05	22
23		0.490	15	0.64		0.209	6	0.11		1.81	11	1.72	23
24		0.470	13	0.53	11.0	0.218	6 S	0.11	19.0	1.48	10 S	1.28	24
25		0.470	11	0.45		1.12	24	2.32		1.17	9	0.91	25
26	8.0	0.434	8 S	0.30		1.37	28	3.31		1.32	9	1.03	26
27		0.389	8	0.27		1.36	28	3.29		1.15	8	0.79	27
28		0.469	9	0.35		1.30	28	3.14		0.916	8	0.63	28
29	10.0	0.481	10 S	0.42		1.41	28	3.41		0.733	8	0.51	29
30		0.477	9	0.37	15.0	5.59	55 S	26.6	24.0	0.564	7 S	0.34	30
31						8.94	70	54.1					31
TOTAL		31.348		103.90		28.436		99.66		57.288		159.60	TOTAL
MEAN		1.04		3.46		0.917		3.21		1.91		5.32	MEAN

MANITOBA

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.491	7	0.30	24.0	0.029	6 S	0.02	16.0	0	0	0	1
2		0.459	6	0.24		0.024	6	0.01		0	0	0	2
3	27.0	0.410	5 S	0.18		0.015	6	0.01		0	0	0	3
4		0.365	5	0.16		0.013	7	0.01		0	0	0	4
5		0.316	5	0.14		0.014	7	0.01		0	0	0	5
6		0.431	5	0.19	24.0	0.012	7 S	0.01		0	0	0	6
7		0.402	5	0.17		0.007	0	0		0	0	0	7
8	25.0	0.295	5 S	0.13		0.003	0	0	20.0	0	0	0	8
9		0.202	5	0.09		0	0	0		0	0	0	9
10		0.164	5	0.07	24.0	0.001	0	0	17.0	0	0	0	10
11		0.126	5	0.05		0	0	0		0	0	0	11
12		0.090	5	0.04		0	0	0		0	0	0	12
13	27.0	0.081	5 S	0.03		0	0	0		0	0	0	13
14		0.060	5	0.03		0	0	0		0	0	0	14
15		0.093	5	0.04		0	0	0		0	0	0	15
16	23.0	0.083	5 S	0.04		0	0	0		0	0	0	16
17		0.071	5	0.03	21.0	0	0	0	14.5	0	0	0	17
18		0.063	5	0.03		0	0	0		0	0	0	18
19		0.048	5	0.02		0	0	0		0	0	0	19
20		0.038	5	0.02		0	0	0		0	0	0	20
21		0.026	5	0.01		0	0	0		0	0	0	21
22	20.0	0.019	5 S	0.01		0	0	0		0	0	0	22
23		0.016	5	0.01		0	0	0		0	0	0	23
24		0.016	5	0.01	23.0	0	0	0		0	0	0	24
25		0.015	5	0.01		0	0	0		0	0	0	25
26		0.012	4	0		0	0	0		0	0	0	26
27	24.0	0.011	4 S	0		0	0	0		0	0	0	27
28		0.012	4	0		0	0	0		0	0	0	28
29		0.014	7 S	0.01		0	0	0		0	0	0	29
30		0.026	7	0.02		0	0	0		0	0	0	30
31		0.033	6	0.02		0	0	0					31
TOTAL		6.488		2.10		0.118		0.07		0		0	TOTAL
MEAN		0.145		0.07		0.004		0		0		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0	0	0									1
2	10.0	0	0	0									2
3		0	0	0									3
4		0	0	0									4
5		0	0	0									5
6		0	0	0									6
7		0	0	0									7
8		0	0	0									8
9		0	0	0									9
10		0	0	0									10
11		0	0	0									11
12		0	0	0									12
13		0	0	0									13
14		0	0	0									14
15		0	0	0									15
16		0	0	0									16
17		0	0	0									17
18		0	0	0									18
19		0	0	0									19
20		0	0	0									20
21		0	0	0									21
22		0	0	0									22
23		0	0	0									23
24		0	0	0									24
25		0	0	0									25
26		0	0	0									26
27		0	0	0									27
28		0	0	0									28
29		0	0	0									29
30		0	0	0									30
31		0	0	0									31
TOTAL		0		0									TOTAL
MEAN		0		0									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	34	
MAXIMUM DAILY	88	ON APR 01
MINIMUM DAILY	0	ON AUG 07

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1.68	
MAXIMUM DAILY	54.1	ON MAY 31
MINIMUM DAILY	0	ON JUL 26

TOTAL SUSPENDED SEDIMENT LOAD 611.33 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 12 30 N
LONG 100 10 45 W
DRAINAGE AREA 925 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		15.5 B	24	32.1		12.8 B	5	5.53		48.1 A	12	49.9	1
2		13.8 B	27	32.2		15.2 B	57	74.9	3.5	44.7 A	9 S	34.8	2
3		12.5 B	33	35.6		110 B	117 S	1 110	3.0	38.7 A	9 S	30.1	3
4	0.1	11.4 B	42 S	41.4		98.0 B	19	161	3.0	36.8 A	9 S	28.6	4
5		10.5 B	23	20.9		86.0 B	8	59.4		31.6 A	9	24.6	5
6	0.1	9.70 B	12 S	10.1		79.0 B	7	47.8		29.5 A	12	30.6	6
7		11.0 B	27	25.7		76.0 B	7	46.0	2.5	30.4 A	7 S	18.4	7
8		39.0 B	132	445		125 B	38	410		26.3 A	8	18.2	8
9		37.0 B	45	144		140 B	10	121		25.4 A	8	17.6	9
10	0.1	33.0 B	72 S	205		132 B	8	91.2	4.0	24.4 A	9 S	19.0	10
11		29.5 B	32	81.6		260 B	22	494		23.6 A	9	18.4	11
12		27.5 B	30	71.3		520 B	255 S	11 500	4.0	21.9 A	9 S	17.0	12
13		26.0 B	28	62.9		300 A	58 S	1 500		20.6 A	8	14.2	13
14		24.2 B	26	54.4		173 A	49 S	732	3.0	20.5 A	7 S	12.4	14
15		23.0 B	28	55.6		114 A	32 S	315		20.9 A	6	10.8	15
16		22.0 B	28	53.2	0.1	91.0 A	56 S	440	3.0	19.2 A	7 S	11.6	16
17	0.1	21.0 B	26 S	47.2	0.1	81.8 A	66 S	466		19.3 A	62	103	17
18		19.5 B	23	38.8	3.0	70.6	39 S	238	2.0	51.4 A	36 S	160	18
19		18.2 B	21	33.0	3.0	65.9	21 S	120		43.7 A	17	64.2	19
20		17.1 B	19	28.1		67.6	25	146	2.0	32.2 A	11 S	30.6	20
21		16.3 B	15	21.1	3.0	81.2	34 S	239		25.6 A	8	17.7	21
22		15.2 B	11	14.4		90.0 A	30	233		22.6 A	8	15.6	22
23		14.8 B	9	11.5	3.5	80.0 A	28 S	194		24.0 A	8	16.6	23
24	0.1	14.3 B	8 S	9.88		73.0 A	27	170	5.0	25.6 A	6 S	13.3	24
25		14.0 B	8	9.68		70.0 A	25	151		26.3 A	8	18.2	25
26		13.8 B	6	7.15	2.5	64.0 A	20 S	111		23.8 A	8	16.5	26
27		14.0 B	5	6.05		60.0 A	16	82.9		32.6 A	9	25.3	27
28		14.2 B	5	6.13	3.0	56.0 A	14 S	67.7	5.0	34.3 A	8 S	23.7	28
29		14.2 B	5	6.13						33.6 A	8	23.2	29
30		13.8 B	5	5.96					2.0	47.8 A	24 S	99.1	30
31	0.1	13.1 B	5 S	5.66					2.0	80.5 A	10 S	69.6	31
TOTAL		579.10		1 621.74		3 192.1		19 326.43		985.9		1 052.8	TOTAL
MEAN		18.7		52.3		114		690		31.8		34.0	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		78.6	9	61.1		33.4	10	28.9	12.0	29.7	21 S	53.9	1
2		85.0	46	338	8.0	28.3	9 S	22.0		21.4	5	9.24	2
3	2.0	156	142 S	1 910		25.5	7	15.4	14.0	17.7	4 S	6.12	3
4	4.5	135	35 S	408	7.5	24.3	5 S	10.5		15.5	3	4.02	4
5	6.0	137	41 S	485		23.5	5	10.2		15.4	4	5.32	5
6	6.0	176	95 S	1 440	14.0	24.0	5 S	10.4	17.0	14.0	12 S	14.5	6
7	3.0	183	34 S	538	10.5	39.5	33 S	113		32.9	44	125	7
8	5.0	129	31 S	346		31.0	8	21.4	13.0	23.9	12 S	24.8	8
9	9.0	103	31 S	276	10.0	24.8	7 S	15.0		23.7	37	75.8	9
10	9.0	128	61 S	675		22.8	5	9.85	12.0	59.9	61 S	316	10
11	6.0	118	22 S	224		21.7	4	7.50	12.0	46.4	18 S	72.2	11
12	5.0	93.3	14 S	113	13.0	20.9	4 S	7.22	13.0	32.9	10 S	28.4	12
13	3.0	75.2	13 S	84.5		25.2	14	30.5	12.0	29.5	17 S	43.3	13
14	4.0	63.4	15 S	82.2	11.0	22.8	4 S	7.88		25.3	8	17.5	14
15	6.0	64.6	27 S	151		20.3	3	5.26	13.0	22.4	8 S	15.5	15
16	6.5	55.7	12 S	57.7	15.0	20.4	9 S	15.9		22.2	8	15.3	16
17		50.3	9 S	39.1		32.1	25	69.3	14.0	23.1	10 S	20.0	17
18	6.5	49.1	20 S	84.8	9.0	26.5	6 S	13.7		20.1	6	10.4	18
19		55.1	13	61.9		23.2	7	14.0		17.4	6	9.02	19
20	6.5	48.2	6 S	25.0	11.0	20.9	8 S	14.4	16.0	15.3	7 S	9.25	20
21		43.7	7	26.4		19.2	6	9.95	15.5	32.8	47 S	133	21
22	5.0	38.9	7 S	23.5		18.1	4	6.26	14.0	37.5	23 S	74.5	22
23		35.0	7	21.2	10.0	18.7	10 S	16.2	16.0	44.3	38 S	145	23
24		31.7	7	19.2	9.0	21.3	6 S	11.0		30.7	13	34.5	24
25	5.0	31.7	7 S	19.2		19.7	4	6.81		27.3	34	80.2	25
26		31.2	5	13.5	14.0	18.6	3 S	4.82		83.2	98	704	26
27	10.0	28.0	5 S	12.1		22.9	14	27.7		67.8	13	76.2	27
28		26.0	7	15.7	15.0	26.7	13 S	30.0	15.0	41.1	9 S	32.0	28
29		25.2	9	19.6		21.5	6	11.1	15.0	31.8	5 S	13.7	29
30	8.0	36.8	27 S	85.8	16.0	20.7	7 S	12.5	16.0	26.6	5 S	11.5	30
31						23.2	20	40.1					31
TOTAL		2 311.7		7 656.5		741.7		618.75		931.8		2 180.17	TOTAL
MEAN		77.1		255		23.9		20.0		31.1		72.7	MEAN

NEW BRUNSWICK

KENNEBECASIS RIVER AT APONAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0	23.9	5 S	10.3		4.51	2	0.78	15.0	7.49 A	4 S	2.59	1
2		21.7	6	11.2	20.0	3.86	2 S	0.67		7.44	5	3.21	2
3		19.9	6	10.3		3.59	2	0.62	16.0	7.00	6 S	3.63	3
4	19.0	18.1	6 S	9.38	21.0	3.20	14 S	3.87		6.74	6	3.49	4
5		17.2	6	8.92		2.92	7	1.77	17.0	6.37	5 S	2.75	5
6	18.0	18.0	14 S	21.8	20.0	3.18	4 S	1.10		6.06	5	2.62	6
7	17.0	28.5	28 S	68.9	18.0	5.83	4 S	2.01	17.0	5.75	6 S	2.98	7
8	17.0	18.4	7 S	11.1		5.73	4	1.98		5.64	7	3.41	8
9	17.0	15.7	4 S	5.43	16.5	4.97	5 S	2.15	16.0	5.50	7 S	3.33	9
10		12.4	2	2.14		4.57	4	1.58		5.79	9	4.50	10
11	19.0	10.3	4 S	3.56		4.09	4	1.41	14.0	5.54	8 S	3.83	11
12		9.73	3	2.52	21.0	4.02	2 S	0.69		5.36	5	2.32	12
13	17.0	9.51	5 S	4.11		4.57	4	1.58	14.0	5.27	4 S	1.82	13
14		9.54	3	2.47		5.47	4	1.89		5.06	6	2.62	14
15	15.0	14.4	30 S	37.3		8.69	4	3.00	15.0	5.01	8 S	3.46	15
16	15.0	14.0	13 S	15.7	17.0	76.3	296 S	1 950	15.0	5.27	11 S	5.01	16
17		10.3	6	5.34	17.0	124	252 S	2 700	14.0	5.27	45 S	20.5	17
18	17.0	8.74	4 S	3.02	16.5	74.9	27 S	175		4.94	80	34.1	18
19		7.74	6	4.01	15.0	49.5	22 S	94.1	14.0	4.87	116 S	48.8	19
20	18.0	7.35	7 S	4.45	14.0	34.6	22 S	65.8	14.0	6.40	154 S	85.2	20
21	19.0	7.71	8 S	5.33	14.0	28.3	12 S	29.3		6.48	193	108	21
22	17.5	10.1	9 S	7.85	16.0	24.0	9 S	18.7	11.0	5.62	224 S	109	22
23	23.0	7.71	6 S	4.00		20.7	8	14.3	11.0	6.68	259 S	149	23
24		6.37	6	3.30	16.0	17.9	8 S	12.4	12.0	9.26	299 S	239	24
25	18.0	5.98	3 S	1.55		14.6	6	7.57	11.0	24.1	338 S	704	25
26		5.77	1	0.50	12.0	11.2	6 S	5.81	11.5	13.8	421 S	502	26
27	19.0	5.55	3 S	1.44		10.8	6	5.60	10.0	9.20	417 S	331	27
28		6.20	2	1.07	13.0	10.5	6 S	5.44		8.13	445	313	28
29	17.0	7.49	3 S	1.94		8.40	5	3.63	11.0	8.44	478 S	349	29
30		5.67	3	1.47	15.0	6.08	4 S	2.10		8.08	513	358	30
31	17.0	5.15	2 S	0.89		6.02	4	2.08					31
TOTAL		369.11		271.29		587.00		5 116.93		216.56		3 402.17	TOTAL
MEAN		11.9		8.75		18.9		165		7.22		113	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	8.0	7.12	553 S	340	4.0	66.5	8 S	46.0	3.0	25.7	6 S	13.3	1
2	10.0	6.85	591 S	350	5.0	60.6	8 S	41.9	2.0	44.5	72 S	277	2
3	10.0	21.0	621 S	1 130	6.0	52.0	6 S	27.0	3.0	128	90 S	995	3
4	8.0	19.1	656 S	1 080	4.5	44.1	8 S	30.5	4.0	106	30 S	275	4
5	7.0	12.5	698 S	754	3.5	37.8	7 S	22.9	2.0	72.3	16 S	99.9	5
6		9.93	814	698		39.7	29	99.5	4.0	90.5	73 S	571	6
7	10.5	16.1	776 S	1 080	10.0	66.7	54 S	311	6.0	95.0	21 S	172	7
8	9.0	26.7	781 S	1 800	7.0	53.3	10 S	46.1	6.0	86.6	13 S	97.3	8
9	9.0	20.4	715 S	1 260	5.0	43.4	6 S	22.5	5.5	70.8	11 S	67.3	9
10	7.0	22.3	691 S	1 330	6.0	37.2	9 S	28.9	5.0	63.5	10 S	54.9	10
11	7.0	19.1	578 S	954		33.2	9	25.8		65.0	15	88.2	11
12		16.2	512	717		31.1	6	16.1	4.0	57.6	10 S	49.8	12
13	5.0	14.3	434 S	536	3.0	27.4	6 S	18.2		48.6	9	37.8	13
14		13.0	363	408		25.9	5	11.2	2.0	41.0	8 S	28.3	14
15	6.0	12.1	294 S	307	4.0	24.7	5 S	10.7		37.7	7	22.8	15
16		11.3	223	218		24.0	6	12.4	2.0	92.3	122 S	973	16
17	9.0	10.8	152 S	142	6.0	51.4	84 S	373	1.0	128	53 S	586	17
18		10.2	82	72.3	5.5	77.2	68 S	454	1.0	83.5	11 S	79.4	18
19	9.0	18.0 A	88 S	137	5.0	77.7	42 S	282	1.0	65.4	10 S	56.5	19
20	8.0	29.5 E	33 S	84.1	4.5	62.5	13 S	70.2		50.5 B	10	43.6	20
21	7.0	20.0 E	11 S	19.0	6.0	112	191 S	1 850	0.1	46.0 B	17 S	67.6	21
22	9.5	17.0 E	8 S	11.8	5.5	108	35 S	327		39.5 B	19	64.8	22
23		16.5 E	10	14.3	4.5	76.5	10 S	66.1	0.1	36.0 B	8 S	24.9	23
24	13.0	60.0 E	275 S	1 430	3.0	62.2	8 S	43.0		33.5 B	6	17.4	24
25	6.0	175 E	42 S	635	2.0	53.2	9 S	41.4		30.8 B	6	16.0	25
26	7.0	150 E	24 S	311	3.0	46.2	9 S	35.9	0.1	29.0 B	6 S	15.0	26
27	9.0	123 E	25 S	266		41.0	9	31.9		27.0 B	7	16.3	27
28	11.0	170 A	112 S	1 650	3.0	37.9	10 S	32.7		25.3 B	7	15.3	28
29	7.0	190	50 S	821	1.0	35.3	7 S	21.3	0.1	23.7 B	6 S	12.3	29
30	6.5	110	12 S	114		30.4	6	15.8		22.5 B	6	11.7	30
31	6.0	78.8	9 S	61.3					0.1	21.8 B	5 S	9.42	31
TOTAL		1 426.80		18 730.8		1 539.1		4 411.0		1 787.6		4 854.82	TOTAL
MEAN		46.0		604		51.3		147		57.7		157	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	55		MEAN	190	
MAXIMUM DAILY	814	ON OCT 06	MAXIMUM DAILY	11 500	ON FEB 12
MINIMUM DAILY	1	ON JUL 26	MINIMUM DAILY	0.50	ON JUL 26

TOTAL SUSPENDED SEDIMENT LOAD 69 243.40 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 42 07 N
LONG 65 36 05 W
DRAINAGE AREA 1 100 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

HARROWS MOUNTAIN BROOK NEAR HARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1981

JAN					FEB				MAR				
DAY	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1		0.057				0.025 B				0.224			1
2		0.057				0.055 B				0.181			2
3		0.057				0.155 B				0.150			3
4		0.051				0.130 B				0.133			4
5		0.045				0.090 B				0.116			5
6		0.042				0.075 B				0.108			6
7		0.045				0.065 B				0.099			7
8		0.043 B				0.060 B				0.096			8
9		0.041 B				0.055 B				0.093			9
10		0.039 B				0.053 B				0.091			10
11		0.037 B				0.065 B				0.082			11
12		0.036 B				0.552				0.079			12
13		0.034				0.480 B				0.076			13
14		0.033 B				0.330 B				0.071			14
15		0.031 B				0.230 B				0.068			15
16		0.030 B				0.195 B				0.071			16
17		0.029 B				0.180 B				0.068			17
18		0.028 B				0.173				0.065			18
19		0.027 B				0.178				0.065			19
20		0.027 B				0.263				0.065			20
21		0.026 B				0.411				0.065			21
22		0.026 B				0.510 B				0.065			22
23		0.025 B				0.560 B				0.062			23
24		0.025 B				0.416				0.065			24
25		0.025 B				0.292				0.061			25
26		0.025 B				0.246				0.058			26
27		0.025 B				0.300				0.065			27
28		0.025 B				0.266				0.060			28
29		0.024 B								0.068			29
30		0.024 B								0.125			30
31		0.024 B								0.281			31
TOTAL		1.063				6.410				2.972			TOTAL
MEAN		0.034				0.229				0.096			MEAN

APR					MAY				JUN				
DAY	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1		0.248	2	0.04		0.149	1	0.01		0.097	2	0.02	1
2		0.413	4	0.14		0.121	1	0.01	9.0	0.066	2 S	0.01	2
3		1.08	3	0.28		0.108	1	0.01		0.057	2	0.01	3
4		0.737	5	0.32		0.098	1	0.01		0.053	2	0.01	4
5		1.21	6	0.63		0.094	1	0.01	13.0	0.052	2 S	0.01	5
6		1.35	5	0.58		0.101	1	0.01		0.051	3	0.01	6
7		0.624	2	0.11		0.125	2	0.02		0.079	6	0.04	7
8		0.506	3	0.13		0.107	1	0.01	13.5	0.060	1 S	0.01	8
9		0.661	5	0.29		0.091	1	0.01	11.5	0.062	6 S	0.03	9
10		0.803	2	0.14		0.079	1	0.01		0.091	2	0.02	10
11		0.507	2	0.09		0.073	1	0.01		0.064	2	0.01	11
12		0.365	2	0.06		0.083	1	0.01		0.065	3	0.02	12
13		0.263	2	0.05	9.5	0.332	8 S	0.23		0.084	2	0.01	13
14		0.216	2	0.04		0.220	1	0.02		0.075	2	0.01	14
15		0.286	3	0.07		0.150	2	0.03		0.062	2	0.01	15
16		0.165	2	0.03		0.150	2	0.03		0.060	2	0.01	16
17		0.146	2	0.03		0.387	8	0.27	13.0	0.064	1 S	0.01	17
18		0.174	4	0.06		0.267	2	0.05		0.045	1	0	18
19		0.201	2	0.03		0.180	2	0.03		0.035	1	0	19
20		0.152	2	0.03		0.151	2	0.03		0.032	1	0	20
21		0.127	2	0.02		0.130	2	0.02		0.208	10 S	0.18	21
22		0.105	2	0.02		0.111	2	0.02		0.125	7	0.08	22
23		0.093	2	0.02		0.100	2	0.02	12.5	0.345	3 S	0.09	23
24		0.100	2	0.02		0.092	2	0.02		0.154	2	0.03	24
25		0.103	2	0.02	10.5	0.082	2 S	0.01		0.125	2	0.02	25
26		0.104	1	0.01		0.102	2	0.02	12.5	0.197	6 S	0.10	26
27		0.098	1	0.01	11.0	0.091	1 S	0.01		0.147	2	0.03	27
28	3.5	0.088	1 S	0.01	12.5	0.082	2 S	0.01		0.098	2	0.02	28
29		0.153	8	0.11	12.5	0.080	2 S	0.01		0.080	2	0.01	29
30	4.0	0.252	1 S	0.02		0.088	2	0.02		0.070	2	0.01	30
31						0.106	3 S	0.03					31
TOTAL		11.330		3.41		4.130		1.01		2.803		0.82	TOTAL
MEAN		0.378		0.11		0.133		0.03		0.093		0.03	MEAN

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.061	2	0.01		0.026 E	1	0		0.026	2	0	1
2		0.062	2	0.01		0.025 E	1	0		0.023	2	0	2
3		0.054	2	0.01		0.024 E	1	0		0.023	2	0	3
4		0.050	2	0.01		0.024 E	1	0	13.0	0.022	2 S	0	4
5		0.047	2	0.01		0.023 E	1	0		0.020	2	0	5
6		0.099	4	0.03	14.5	0.192 E	13 S	0.22		0.018	2	0	6
7	15.5	0.208	4 S	0.07		0.160 E	2	0.03		0.016	2	0	7
8		0.088	2	0.02		0.130 E	2	0.02		0.014	2	0	8
9		0.062	2	0.01		0.090 E	2	0.02		0.034	5	0.01	9
10		0.054	2	0.01		0.062 E	2	0.01		0.036	2	0.01	10
11		0.046	2	0.01		0.050 E	2	0.01		0.025	2	0	11
12		0.042	2	0.01	17.0	0.042 A	2 S	0.01		0.024	2	0	12
13		0.037	2	0.01		0.036	2	0.01		0.020	2	0	13
14		0.039	2	0.01		0.030	2	0.01		0.033	6	0.02	14
15		0.043	2	0.01		0.029	2	0.01		0.050	2	0.01	15
16		0.034	2	0.01		0.225	6 S	0.12		0.030	2	0.01	16
17		0.029	2	0.01		0.194	2	0.03		0.024	2	0	17
18		0.077	14 S	0.09		0.122	2	0.02		0.020	2	0	18
19		0.177	3	0.05		0.086	2	0.01		0.094	20 S	0.16	19
20		0.071	2	0.01		0.069	2	0.01		0.332	7	0.20	20
21		0.126	3	0.03		0.062	2	0.01	9.5	0.102	2 S	0.02	21
22	14.5	0.104	1 S	0.01		0.052	2	0.01		0.101	14	0.12	22
23		0.055	1	0	16.0	0.066	3 S	0.02		0.328	11	0.31	23
24		0.046 A	1	0		0.070	2	0.01		0.219	15	0.28	24
25		0.027 E	1	0		0.053	2	0.01		0.439	10	0.38	25
26		0.035 E	1	0		0.042	2	0.01		0.224	2	0.04	26
27		0.068 E	1	0.01		0.035	2	0.01		0.155	1	0.01	27
28		0.046 E	1	0		0.036	2	0.01	9.5	0.151	1 S	0.01	28
29	13.0	0.034 A	1 S	0		0.032	2	0.01		0.128	1	0.01	29
30		0.030 E	2	0.01		0.029	2	0.01	6.5	0.109	1 S	0.01	30
31		0.028 E	2	0		0.027	2	0					31
TOTAL		1.979		0.47		2.143		0.65		2.840		1.61	TOTAL
MEAN		0.064		0.02		0.069		0.02		0.095		0.05	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.097	1	0.01		0.196				0.073			1
2		0.102	7 S	0.06		0.175				0.134			2
3		0.401	6 S	0.21		0.158				0.350			3
4		0.241 A	3	0.06		0.131				0.392			4
5		0.120 E	2	0.02		0.123				0.241			5
6		0.100 E	2	0.02		0.125				0.366			6
7		0.170 E	9	0.13		0.155				0.541			7
8		0.240 E	2	0.04		0.208				0.430			8
9		0.190 E	2	0.03		0.140				0.311			9
10		0.140 E	1	0.01		0.115				0.246			10
11		0.120 E	1	0.01		0.098				0.216			11
12		0.107 E	1	0.01		0.093				0.184			12
13		0.100 E	1	0.01		0.078				0.138			13
14		0.095 E	1	0.01		0.076				0.120			14
15		0.091 E	1	0.01		0.077				0.116			15
16		0.086 E	1	0.01		0.069				0.124			16
17		0.082 E	1	0.01		0.160				0.125			17
18		0.079 E	1	0.01		0.237				0.098			18
19	7.5	0.343 A	11 S	0.33		0.216				0.095			19
20		0.229	3	0.06		0.148				0.087 B			20
21		0.128	2	0.02		0.306				0.082 B			21
22		0.104	1	0.01		0.250				0.076 B			22
23	5.0	0.117	6 S	0.06		0.173				0.071 B			23
24		0.397	8	0.27		0.144				0.065 B			24
25		0.254	2	0.04		0.129				0.061 B			25
26		0.188	3	0.05		0.111				0.057 B			26
27		0.228	3	0.06		0.101				0.055 B			27
28		0.576	10	0.50		0.095				0.052 B			28
29		0.564	2	0.10		0.091				0.050 B			29
30		0.330	2	0.06		0.080				0.047 B			30
31		0.247	1	0.02						0.045 B			31
TOTAL		6.266		2.25		4.254				5.048			TOTAL
MEAN		0.202		0.07		0.142				0.163			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 20 ON SEP 19
MINIMUM DAILY 1 ON APR 26

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 0.63 ON APR 05
MINIMUM DAILY 0 ON JUN 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 16 36 N
LONG 67 01 17 W
DRAINAGE AREA 3.89 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PETITCODIAC RIVER NEAR PETITCODIAC - STATION NO. 01BU002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		3.50 B	5	1.51		1.42 B	4	0.49		13.2	7	7.98	1
2		3.12 B	5	1.35	0.5	1.65 B	6 S	0.86		11.3	6	5.86	2
3		2.93 B	4	1.01	0.5	7.97 B	32 S	22.0		9.96	5	4.30	3
4		2.75 B	3	0.71		6.25 B	10	5.40		8.22	6	4.26	4
5		2.67 B	1	0.23		5.75 B	8	3.97		7.44	6	3.86	5
6		2.56 B	3	0.66		5.36 B	8	3.70	1.0	6.82	5 S	2.95	6
7		5.10 B	4	1.76		5.00 B	7	3.02		6.67	4	2.31	7
8		4.59 B	13	5.16	0.5	4.82 B	8 S	3.33		6.12	3	1.59	8
9		4.21 B	6	2.18	0.5	20.1 B	7 S	12.2		5.71	4	1.97	9
10		3.90 B	5	1.68		17.2 B	6	8.92		5.35	4	1.85	10
11		3.63 B	5	1.57		14.4 B	11	13.7		5.13	4	1.77	11
12		3.37 B	4	1.16	1.0	58.5 B	190 S	895	4.0	4.86	4 S	1.68	12
13		3.12 B	4	1.08	0.5	46.0 B	63 S	250		4.75	4	1.64	13
14		2.93 B	4	1.01		40.6 B	33	116		4.61	4	1.59	14
15		2.72 B	3	0.71	0.5	36.1 B	16 S	49.9		4.60 B	3	1.19	15
16		2.52 B	1	0.22		33.0 B	11	31.4		4.70 B	3	1.22	16
17		2.39 B	1	0.21		30.0 B	11	28.5		5.19	9	4.04	17
18	0.5	2.26 B	1 S	0.20		28.7 A	10	24.8		13.3	32	36.8	18
19		2.12 B	2	0.37	1.5	24.9 B	7 S	15.1		11.2	2	1.94	19
20		2.02 B	1	0.17	1.0	24.2 B	8 S	16.7		9.00 B	3	2.33	20
21		1.93 B	2	0.33	1.5	23.1 B	13 S	25.9		10.4	5	4.49	21
22		1.84 B	2	0.32		22.2 B	11	21.1	1.5	7.30 B	4 S	2.52	22
23		1.79 B	3	0.46	0.5	33.6 B	9 S	18.4		7.00 B	5	3.02	23
24		1.73 B	2	0.30		22.3 B	8	15.4		6.90 B	4	2.38	24
25		1.70 B	2	0.29		20.3 B	6	10.5		6.80 B	5	2.94	25
26		1.71 B	3	0.44	0.5	18.9 B	9 S	14.7		6.80 B	4	2.35	26
27	0.5	1.67 B	3 S	0.43		17.0	12	17.6		7.00 B	3	1.81	27
28		1.62 B	7	0.98		14.9	10	12.9		7.20 B	2	1.24	28
29		1.54 B	5	0.67					2.0	8.00 B	11 S	7.60	29
30		1.49 B	6	0.77						10.0 B	6	5.18	30
31		1.44 B	4	0.50					1.5	29.9	81 S	209	31
TOTAL		80.87		28.44		570.22		1 641.49		255.43		333.66	TOTAL
MEAN		2.61		0.92		20.4		58.6		8.24		10.8	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	2.0	28.7	51 S	126		9.05	5	3.91	17.5	7.71	14 S	9.33	1
2	2.0	37.5	38 S	123	9.0	6.67	4 S	2.31	12.5	5.54	7 S	3.35	2
3	1.5	70.0	53 S	321		5.54	4	1.91		3.62	5	1.56	3
4	2.0	65.5	38 S	215	7.0	4.91	4 S	1.70		2.74	6	1.42	4
5	3.0	73.2	32 S	202	12.0	4.74	4 S	1.64		2.49	5	1.08	5
6	3.0	89.5	39 S	302	12.0	4.73	4 S	1.63		2.46	8	1.70	6
7	3.0	76.0	20 S	131	9.5	8.54	12 S	8.85	14.0	7.39	44 S	28.1	7
8		40.9	15	53.0		10.1	6	5.24		11.1	14	13.4	8
9	3.0	29.4	19 S	48.3		6.53	6	3.39		11.7	18	18.2	9
10		48.5	43	180		5.07	7	3.07	12.5	32.0	43 S	119	10
11	3.0	44.9	12 S	46.6		4.28	4	1.48		30.9	15	40.0	11
12		27.1	8	18.7	13.0	4.00	3 S	1.04		20.2	13	22.7	12
13		19.5	8	13.5		4.09	6	2.12		12.0	12	12.4	13
14		14.5	8	10.0		4.76	3	1.23		8.28	6	4.29	14
15		14.2	12	14.7		4.07	4	1.41	15.0	6.54	3 S	1.70	15
16		10.8	12	11.2		3.50	3	0.91	16.0	5.62	3 S	1.46	16
17		8.98	11	8.53	15.0	4.37	7 S	2.64		5.27	3	1.37	17
18		9.26	13	10.4	12.0	6.41	6 S	3.32		4.62	3	1.20	18
19		13.5	14	16.3		5.50	5	2.38		3.69	5	1.59	19
20	4.0	11.0	7 S	6.65		4.59	5	1.98		3.10	4	1.07	20
21		8.95	5	3.87		3.80	6	1.97	15.0	16.9	31 S	45.3	21
22		9.20	5	3.54		3.13	5	1.35		20.5	11	19.5	22
23		7.09	3	1.84		2.86	4	0.99		17.6	9	13.7	23
24		6.46	2	1.12	14.0	4.34	7 S	2.62		9.13	7	5.52	24
25	5.5	6.61	3 S	1.71	17.5	5.39	5 S	2.33		11.0	21	20.0	25
26		6.76	5	2.92		4.26	4	1.47		35.5	54	166	26
27		5.91	3	1.53		3.48	3	0.90		23.8	8	16.5	27
28		5.32	3	1.38		4.68	7	2.83		12.8	9	9.95	28
29		5.17	5	2.23		4.34	4	1.50		7.71	9	6.00	29
30		10.2	10	8.81	17.0	3.33	4 S	1.15		5.94	8	4.11	30
31					16.0	3.76	7 S	2.27					31
TOTAL		803.61		1 886.83		154.82		71.54		347.85		591.50	TOTAL
MEAN		26.8		62.9		4.99		2.31		11.6		19.7	MEAN

NEW BRUNSWICK

PETITCODIAC RIVER NEAR PETITCODIAC - STATION NO. 01BU002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4.70	8	3.25		1.28	5	0.54		1.26	5	0.54	1
2		3.92	7	2.37		1.11	5	0.48	21.0	1.23	6 S	0.64	2
3		3.49	6	1.81		0.940	4	0.32		1.17	6	0.61	3
4		2.91	5	1.26		0.882	4	0.30		1.13	5	0.49	4
5		2.75	5	1.19		0.838	4	0.29		1.10	3	0.29	5
6		3.09	6	1.60		1.01	8	0.70		1.08	2	0.19	6
7	17.0	3.55	6 S	1.84	17.0	1.75	9 S	1.36		0.963	3	0.25	7
8		2.88	6	1.49		1.61	5	0.70		0.920	3	0.24	8
9		2.98	7	1.80		1.59	5	0.69	18.0	0.868	2 S	0.15	9
10		2.64	6	1.37		1.34	4	0.46		0.846	2	0.15	10
11		2.31	6	1.20		1.22	4	0.42		0.840	3	0.22	11
12		2.24	5	0.97		1.09	3	0.28		0.859	3	0.22	12
13		2.23	5	0.96		0.975	2	0.17		0.841	2	0.15	13
14	18.5	2.21	6 S	1.15		0.927	2	0.16		0.850	2	0.15	14
15		3.17	5	1.37		0.810	4	0.28	18.0	0.905	1 S	0.08	15
16		4.17	8	2.88	17.0	14.7	43 S	54.6	16.0	0.965	2 S	0.17	16
17		3.00	7	1.81		49.7	97	417		1.01	3	0.26	17
18		2.28	5	0.98		38.4	25	82.9		0.970	3	0.25	18
19		1.91	5	0.83		21.4	9	16.6		0.856	1	0.07	19
20		1.70	5	0.73	18.0	10.4	7 S	6.29		1.13	1	0.10	20
21	19.0	1.79	8 S	1.24		5.99	6	3.11		1.07	2	0.18	21
22		2.21	9	1.72		4.28	6	2.22		0.957	3	0.25	22
23		1.94	6	1.01		3.24	6	1.68	12.0	1.38	4 S	0.48	23
24		1.62	6	0.84		2.73	6	1.42		1.77	5	0.76	24
25		1.34	7	0.81		2.42	5	1.05	14.0	5.04	16 S	6.97	25
26		1.21	8	0.84	15.0	2.10	6 S	1.09	12.0	3.97	8 S	2.74	26
27		1.34	8	0.93		1.88	4	0.65		2.68	5	1.16	27
28		1.80	8	1.24		1.77	6	0.92		2.32	4	0.80	28
29		1.60	7	0.97		1.68	5	0.73		2.28	4	0.79	29
30		1.50	8	1.04		1.45	6	0.75	9.0	2.01	3 S	0.52	30
31		1.34	6	0.69		1.30	6	0.67					31
TOTAL		75.82		42.19		180.772		598.83		43.270		19.87	TOTAL
MEAN		2.45		1.36		5.83		19.3		1.44		0.66	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.80	3	0.47	3.0	18.0	5 S	7.78		6.30	3	1.63	1
2		1.68	4	0.58		15.1	5	6.52		14.3	15	18.5	2
3	9.0	7.69	40 S	26.6		12.0	6	6.22	3.0	42.9	44 S	163	3
4	8.0	7.63	17 S	11.2		9.38	5	4.05	2.0	44.7	35 S	135	4
5		5.04	7	3.05		8.10	4	2.80	3.0	26.2	24 S	54.3	5
6		3.52	4	1.22		8.15	12	8.45		35.1	39	118	6
7	9.0	8.61	32 S	23.8		16.0	19	26.3		37.4	12	38.8	7
8	8.0	14.3	20 S	24.7		13.8	6 S	7.15		31.3	7	18.9	8
9		16.4	16	22.7		10.2	4	3.53	4.0	20.8	4 S	7.19	9
10	7.0	19.7	15 S	25.5		8.25	4	2.85		18.0	6	9.33	10
11		18.0	9	14.0		7.14	4	2.47		19.7	11	18.7	11
12		9.26	3	2.40		6.69	3	1.73	3.0	16.8	3 S	4.35	12
13		6.43	2	1.11		5.84	3	1.51	0.1	12.9	4 S	4.46	13
14		4.94	2	0.85		5.40	2	0.93		9.25	6	4.80	14
15		4.14	4	1.43		5.11	2 S	0.88		8.06	6	4.18	15
16		3.59	5	1.55		4.87	2	0.84		41.4	73	261	16
17	5.0	3.23	4 S	1.12		12.6	13	14.2		58.6	27	137	17
18		2.84	4	0.98		32.9	5 S	14.2	2.0	36.0	13 S	40.4	18
19	9.0	5.66	17 S	8.31	5.0	45.8	10 S	39.6	0.1	20.7	9 S	16.1	19
20	7.0	10.8	12 S	11.2		34.0	7	20.6	0.1	13.4	12 S	13.9	20
21		7.68	6	3.98		62.6	5 S	27.0		11.2	9	8.71	21
22		5.33	6	2.76	5.0	55.2	10 S	47.7		8.80 B	9	6.84	22
23		4.41	7	2.67		29.3	6	15.2		8.00 B	8	5.53	23
24	9.0	73.2	80 S	506		17.2	5 S	7.43	0.1	7.20 B	5 S	3.11	24
25	8.0	86.7	35 S	262		12.5	5	5.40		6.70 B	9	5.21	25
26		44.7	14	54.1		10.2	3	2.64		6.40 B	7	3.87	26
27		37.4	14	45.2		8.95	2	1.55	0.1	6.00 B	7 S	3.63	27
28		90.0	93	723		8.34	3	2.16		5.70 B	6	2.95	28
29		91.9	17	135		7.79	4	2.69		5.45 B	8	3.77	29
30		51.1	11	48.6		6.65	3	1.72		5.25 B	7	3.18	30
31		26.1	8	18.0						5.00 B	9	3.89	31
TOTAL		673.78		1 984.08		498.06		286.10		589.51		1 120.23	TOTAL
MEAN		21.7		64.0		16.6		9.54		19.0		36.1	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 8 604.76 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	23
MAXIMUM DAILY	190 ON FEB 12
MINIMUM DAILY	1 ON JAN 05

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	23.6
MAXIMUM DAILY	895 ON FEB 12
MINIMUM DAILY	0.07 ON SEP 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 56 37 N
LONG 65 10 13 W
DRAINAGE AREA 391 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		25.0 B	1	2.16		10.1 B	3	2.62		16.6	8	11.5	1
2	0.1	22.5 B	1 S	1.94		9.90 B	3	2.57	1.2	16.7	8 S	11.5	2
3		20.0 B	1	1.73		13.0 B	7	7.86		16.2	6	8.40	3
4		18.3 B	1	1.58		23.5 B	12	24.4		15.5	5	6.70	4
5		17.5 B	1	1.51		21.7 B	10	18.7		15.4	5	6.65	5
6		15.2 B	1	1.31		19.5 B	9	15.2		16.2	4	5.60	6
7		14.4 B	1	1.24		18.0 B	9	14.0		15.7	3	4.07	7
8	0.1	16.5 B	1 S	1.43		16.8 B	10	14.5		14.3	2	2.47	8
9		19.5 B	1	1.68	0.1	19.0 B	11 S	18.1	3.6	13.3	1 S	1.15	9
10		22.0 B	1	1.90		22.0 B	10	19.0		12.4	1	1.07	10
11		25.5 B	1	2.20		26.0 B	9	20.2		12.2	1	1.05	11
12		30.0 B	1	2.59		32.5 B	10	28.1	0.5	11.8	1 S	1.02	12
13		26.5 B	1	2.29		37.0 B	12	38.4		11.4	1	0.98	13
14		24.0 B	1	2.07		33.5 B	10	28.9		11.1	1	0.96	14
15		22.0 B	1	1.90		30.2 B	8	20.9		10.9	1	0.94	15
16		20.2 B	1	1.75	0.1	27.8 B	6 S	14.4	0.9	10.5	1 S	0.91	16
17		19.1 B	1	1.65		25.8 B	6	13.4		10.2	1	0.88	17
18		18.0 B	1	1.56		24.5 B	5	10.6		26.0	7	15.7	18
19		17.1 B	1	1.48		23.0 B	5	9.94		25.4	5	11.0	19
20		16.0 B	2	2.76		21.6 B	5	9.33		20.2	2	3.49	20
21		15.1 B	3	3.91		20.4 B	4	7.05		18.5	1	1.60	21
22		14.4 B	3	3.73		19.2 B	4	6.64		16.8	1	1.45	22
23		13.7 B	3	3.55	0.1	18.3 B	4 S	6.32	1.8	15.7	1 S	1.36	23
24		13.2 B	3	3.42		17.3	4	5.98		14.9	1	1.29	24
25		12.6 B	3	3.27		17.6	5	7.60		14.2	1	1.23	25
26		12.2 B	3	3.16		17.7	7	10.7		13.6	1	1.18	26
27	0.1	11.7 B	3 S	3.03		18.2	8	12.6		13.4	1	1.16	27
28		11.3 B	3	2.93		17.7	8	12.2		12.9	1	1.11	28
29		11.0 B	3	2.85						12.3	1	1.06	29
30		10.7 B	3	2.77					1.7	12.4	1 S	1.07	30
31		10.4 B	3	2.70						12.5	1	1.08	31
TOTAL		545.6		72.05		601.80		400.21		459.2		109.63	TOTAL
MEAN		17.6		2.32		21.5		14.3		14.8		3.54	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		12.6	1	1.09		121	20	209	9.4	17.6	1 S	1.52	1
2		11.6	1	1.00		126	22	240		15.7	1	1.36	2
3		15.6	3	4.04		131	17	192		13.7	1	1.18	3
4		18.6	4	6.43	3.5	120	7 S	72.6		13.3	1	1.15	4
5		30.2	12	31.3		108	5	46.7		13.2	1	1.14	5
6	2.5	90.6	20 S	157		116	5	50.1		12.0	1	1.04	6
7	1.5	130	10 S	112		120	6	62.2		11.9	1	1.03	7
8	3.0	70.3	4 S	24.3		102	5	44.1		55.4	8	38.3	8
9		55.2	2	9.54		81.4	4	28.1	8.4	40.0	2 S	6.91	9
10		61.2	3	15.9		77.5	4	26.8		24.7	1	2.13	10
11		63.6	3	16.5	4.7	72.9	3 S	18.9		21.0	1	1.81	11
12		49.5	2	8.55		68.0	2	11.8		18.3	1	1.58	12
13	1.5	42.0	2 S	7.26		62.2	2	10.7		17.1	1	1.48	13
14		36.4	2	6.29		53.8	2	9.30		15.8	1	1.37	14
15		36.3	2	6.27		45.8	2	7.91	8.9	14.5	1 S	1.25	15
16		37.3	2	6.45		39.5	2	6.83		14.7	1	1.27	16
17		33.8	2	5.84		35.3	4	12.2		13.4	1	1.16	17
18		30.3	2	5.24	6.2	37.0	4 S	12.8	14.4	13.8	1 S	1.19	18
19		27.8	2	4.80		29.0	1	2.51		12.8	1	1.11	19
20	3.7	27.1	2 S	4.68		25.8	1	2.23		11.5	1	0.99	20
21		38.3	4	13.2		23.4	1	2.02		17.8	3	4.61	21
22		53.8	9	41.8		20.9	1	1.81	11.4	47.0	5 S	20.3	22
23		53.7	6	27.8		19.5	1	1.68		28.0	3	7.26	23
24		46.7	2	8.07		19.8	2	3.42		26.6	3	6.89	24
25		41.7	1	3.60	6.6	21.8	2 S	3.77		20.3	3	5.26	25
26		37.9	1	3.27		18.5	1	1.60		22.1	6	11.5	26
27	2.6	36.5	1 S	3.15		17.3	1	1.49		23.8	10	20.6	27
28		46.5	5	20.1		15.8	1	1.37		18.7	10	16.2	28
29		51.1	6	26.5		18.8	1	1.62	15.8	16.7	10 S	14.4	29
30	3.4	127	24 S	263		16.9	1	1.46		15.3	9	11.9	30
31						15.8	1	1.37					31
TOTAL		1 413.2		844.97		1 780.7		1 088.39		606.7		187.89	TOTAL
MEAN		47.1		28.2		57.4		35.1		20.2		6.26	MEAN

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		14.5	7	8.77		9.90	3	2.57		11.9	1	1.03	1
2		13.4	6	6.95		8.95	2	1.55		11.3	1	0.98	2
3		11.9	5	5.14	18.5	9.22	1 S	0.80		10.8	1	0.93	3
4		11.5	4	3.97		10.6	2	1.83		10.2	2	1.76	4
5		11.2	2	1.94		10.6	1	0.92		9.63	2	1.66	5
6	13.4	11.1	1 S	0.96		9.06	1	0.78		9.13	2	1.58	6
7		12.1	1	1.05		8.05	1	0.70	14.8	8.86	3 S	2.30	7
8		11.6	1	1.00		7.54	1	0.65		8.30	2	1.43	8
9		10.6	1	0.92		7.59	1	0.66		7.86	2	1.36	9
10		9.58	1	0.83	16.4	7.32	1 S	0.63		7.71	2	1.33	10
11		8.79	1	0.76		7.54	1	0.65		7.32	2	1.26	11
12		8.61	1	0.74	16.2	8.17	2 S	1.41		7.09	2	1.23	12
13	13.0	8.30	1 S	0.72	16.2	33.8	10 S	29.2		7.22	1	0.62	13
14		19.9	3	5.16		15.3	5	6.61	13.3	7.48	1 S	0.65	14
15		27.3	8	18.9		12.9	4	4.46		7.45	1	0.64	15
16		16.6	7	10.0		10.8	4	3.73		6.93	1 S	0.60	16
17		20.6	8	14.2	15.1	76.6	25 S	165		6.53	1 S	0.56	17
18		13.2	7	7.98	14.5	63.4	7 S	38.3		6.36	1 S	0.55	18
19		10.9	6	5.65		39.2	2	6.77		6.19	1 S	0.53	19
20	17.1	9.84	5 S	4.25		31.5	1	2.72		32.5	14	39.3	20
21		8.70	3	2.26	13.6	28.5	2 S	4.92	11.8	28.9	5 S	12.5	21
22	17.0	8.44	2 S	1.46		26.2	2	4.53		21.6	1	1.87	22
23		7.55	1	0.65		23.7	2	4.10		15.9	1	1.37	23
24		7.24	1	0.63		21.7	2	3.75		13.1	1	1.13	24
25		7.07	1	0.61		20.4	2	3.53	11.4	20.7	1 S	1.79	25
26		6.72	1	0.58	17.3	18.3	2 S	3.16		17.7	1	1.53	26
27		5.91	1	0.51		17.1	2	2.95		13.5	1	1.17	27
28	15.5	44.6	27 S	104		16.0	2	2.76	11.5	11.6	1 S	1.00	28
29		19.7	19	32.3		14.7	2	2.54		15.3	2	2.64	29
30		13.1	11	12.5		13.8	2	2.38		29.1	6	15.1	30
31		10.9	6	5.65	17.7	12.3	1 S	1.06					31
TOTAL		401.45		261.04		600.74		305.62		378.16		100.40	TOTAL
MEAN		13.0		8.42		19.4		9.86		12.6		3.35	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		22.9	4	7.91		18.8	1	1.62		18.9	4	6.53	1
2		19.4	3	5.03	6.0	19.0	2 S	3.28	2.5	17.8	4 S	6.15	2
3		32.2	5	13.9		20.8	2	3.59		24.4	8	16.9	3
4		40.6	7	24.6		19.9	2	3.44		130	24	270	4
5		27.3	6	14.2	4.5	18.6	2 S	3.21		111	18	173	5
6		31.0	5	13.4		17.3	2	2.99		88.5	12	91.8	6
7		25.3	3	6.56		82.7	27	193	6.2	72.5	4 S	25.1	7
8		43.8	7	26.5		47.0	12	48.7		58.7	3	15.2	8
9		31.6	6	16.4	6.3	35.6	4 S	12.3	6.0	57.5	3 S	14.9	9
10		26.3	4	9.09		29.5	3	7.65		50.9	3	13.2	10
11		23.5	3	6.09		26.9	3	6.97		45.8	5	19.8	11
12		21.5	2	3.72		29.3	4	10.1		40.5	5	17.5	12
13		20.1	1	1.74		28.9	5	12.5		34.1	6	17.7	13
14		18.3	1	1.58		25.1	5	10.8	2.8	30.4	6 S	15.8	14
15		17.5	1	1.51		22.7	5	9.81		27.1	5	11.7	15
16		16.2	1	1.40	4.5	21.9	5 S	9.46		35.7	7	21.6	16
17		20.2	2	3.49		21.6	4	7.46	2.6	71.3	5 S	30.8	17
18		26.1	3	6.77	4.5	38.4	3 S	9.95		47.5	3	12.3	18
19		19.5	2	3.37	4.3	38.6	2 S	6.67		37.7	3	9.77	19
20		21.1	1	1.82		31.9	2	5.51		33.0	3	8.55	20
21		20.8	1	1.80		27.3	2	4.72	1.3	29.5	3 S	7.65	21
22		18.9	1	1.63		29.9	2	5.17		27.0	4	9.33	22
23		17.9	1	1.55	3.9	39.2	3 S	10.2		24.7	5	10.7	23
24		17.1	1	1.48		34.6	3	8.97		21.3	5	9.20	24
25		18.3	1	1.58		29.2	3	7.57		20.5	5	8.86	25
26		16.4	1	1.42		26.6	3	6.89		19.6	5	8.47	26
27		15.6	1	1.35		24.9	3	6.45		18.2 B	5	7.86	27
28		28.5	3	7.39		23.1	4	7.98	0.1	17.5 B	5 S	7.56	28
29	6.3	31.7	2 S	5.48		21.1	5	9.12		16.9 B	5	7.30	29
30		23.1	1	2.00	3.0	20.0	5 S	8.64		16.3 B	5	7.04	30
31		20.2	1	1.75						15.7 B	5	6.78	31
TOTAL		732.9		196.51		870.4		444.72		1 260.5		889.05	TOTAL
MEAN		23.6		6.34		29.0		14.8		40.7		28.7	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 4 900.48 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	6	
MAXIMUM DAILY	27	ON JUL 28
MINIMUM DAILY	1	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	13.4	
MAXIMUM DAILY	270	ON DEC 04
MINIMUM DAILY	0.51	ON JUL 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 34 31 N
LONG 58 21 48 W
DRAINAGE AREA 640 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		3.80 B				2.10 B				4.60 B			1
2		3.68 B				2.30 B				5.00 B			2
3		3.60 B				2.52 B				5.34			3
4		3.50 B				2.75 B				6.14			4
5		3.38 B				2.68 B				8.07			5
6		3.30 B				2.62 B				10.1			6
7		3.22 B				2.53 B				10.2			7
8		3.16 B				2.45 B				9.73			8
9		3.05 B				2.40 B				9.12			9
10		3.00 B				2.35 B				8.32			10
11		2.93 B				3.35 B				7.74			11
12		2.87 B				4.60 B				7.05			12
13		2.81 B				6.00 B				6.38			13
14		2.78 B				7.80 B				5.94			14
15		2.72 B				7.50 B				5.77			15
16		2.70 B				7.05 B				5.45			16
17		2.63 B				6.75 B				5.05			17
18		2.60 B				6.50 B				4.75			18
19		2.56 B				6.20 B				4.63			19
20		2.50 B				5.90 B				4.57			20
21		2.48 B				5.65 B				4.25			21
22		2.42 B				5.45 B				4.03			22
23		2.38 B				5.25 B				3.87			23
24		2.32 B				5.05 B				3.66			24
25		2.30 B				4.85 B				3.41			25
26		2.27 B				4.65 B				3.28			26
27		2.23 B				4.50 B				3.14			27
28		2.20 B				4.35 B				3.04			28
29		2.18 B								2.86			29
30		2.17 B								2.70			30
31		2.12 B								2.53 B			31
TOTAL		85.86				126.10				170.72			TOTAL
MEAN		2.77				4.50				5.51			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		3.10				18.2				4.67			1
2		2.29				21.9				4.18			2
3		2.29				25.4				3.88			3
4		2.42				24.9				3.74			4
5		2.43				23.5				3.60			5
6		2.77				22.0				3.37			6
7		3.12				25.0				3.13			7
8		3.47				32.8				5.02			8
9		3.65				35.6				7.28			9
10		4.66				33.9				9.05			10
11		6.06				31.5				9.82			11
12		6.66				29.6				9.84			12
13		6.75				26.2				9.56			13
14		6.58				22.9				9.22			14
15		6.52				20.3				8.83			15
16		6.50				17.9				8.90			16
17		6.30				16.1				8.65			17
18		5.98				14.8				8.46			18
19		5.81				13.7				8.04			19
20		5.92				12.5				7.39			20
21		6.74				11.2				7.02			21
22		9.71				9.98				6.81			22
23		14.6				8.98				6.42			23
24		16.1				8.20				6.40			24
25		16.3				7.55				6.20			25
26		15.7				6.73				6.05			26
27		14.9				6.29				5.90			27
28		14.6				5.85				5.58			28
29		14.7				5.40				5.21			29
30		15.6				5.07				4.87			30
31						4.84							31
TOTAL		232.23				548.79				197.09			TOTAL
MEAN		7.74				17.7				6.57			MEAN

NEWFOUNDLAND

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4.52	5	1.95	15.5	1.14	6 S	0.59		2.59	1	0.22	1
2		4.11	5	1.78		1.11	6	0.58		2.38	1	0.21	2
3		3.72	5	1.61		1.18	7	0.71		2.26	1	0.20	3
4		3.48	5	1.50		1.34	8	0.93	17.0	2.17	2 S	0.37	4
5		3.25	5	1.40		1.89	11	1.80		2.02	2	0.35	5
6	18.5	2.90	5 S	1.25		2.02	8	1.40		1.93	2	0.33	6
7		2.84	5	1.23		2.02	4	0.70		1.77	2	0.31	7
8		2.84	5	1.23	15.0	2.13	1 S	0.18		1.66	2	0.29	8
9		2.74	5	1.18		2.18	1	0.19		1.56	2	0.27	9
10		2.45	5	1.06		2.22	1	0.19		1.43	3	0.37	10
11		2.30	5	0.99		2.21	1	0.19	17.0	1.39	3 S	0.36	11
12		2.13	5	0.92		2.22	1	0.19		1.30	3	0.34	12
13		1.99	5	0.86		2.22	2	0.38		1.23	3	0.32	13
14		1.98	5	0.86	15.0	2.12	3 S	0.55		1.22	3	0.32	14
15		1.99	5	0.86		2.03	3	0.53		1.15	4	0.40	15
16	16.5	2.07	5 S	0.89		1.94	3	0.50		1.10	3	0.29	16
17		2.07	5	0.89		1.96	3	0.51		1.03	3	0.27	17
18		2.04	5	0.88		2.25	3	0.58	17.0	0.961	3 S	0.25	18
19		2.08	5	0.90		2.88	6	1.49		0.865	3	0.22	19
20		2.15	4	0.74		3.54	7	2.14		0.877	3	0.23	20
21		2.16	4	0.75	15.0	3.57	5 S	1.54		0.792	2	0.14	21
22		2.06	4	0.71		3.74	4	1.29		0.788	2	0.14	22
23		2.03	4	0.70		3.67	4	1.27		0.786	2	0.14	23
24		1.90	4	0.66		3.78	3	0.98		0.755	2	0.13	24
25		1.79	5	0.77		3.69	2	0.64		0.819	2	0.14	25
26		1.60	5	0.69		3.48	2	0.60	10.0	1.11	1 S	0.10	26
27		1.45	5	0.63		3.33	2	0.58		2.67	6	1.38	27
28		1.47	5	0.64	16.5	3.21	1 S	0.28	9.5	3.17	3 S	0.82	28
29		1.44	5	0.62		3.01	1	0.26		4.12	5	1.78	29
30		1.33	5	0.57		2.86	1	0.25		6.24	9	4.85	30
31		1.25	6	0.65		2.74	1	0.24					31
TOTAL		72.13		30.37		77.68		22.26		52.183		15.54	TOTAL
MEAN		2.33		0.98		2.51		0.72		1.74		0.52	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	9.5	6.63	7 S	4.01		3.50	2	0.60		3.92	18	6.10	1
2		6.54	4	2.26		3.41	3	0.88		3.80 B	18	5.91	2
3		6.51	3	1.69		3.27	2	0.57		3.68	18	5.72	3
4		7.32	4	2.53		3.07	2	0.53		3.90	19	6.40	4
5		9.41	5	4.07		2.87	3	0.74	1.5	4.60	21 S	8.35	5
6		11.0	6	5.70		2.74	3	0.71		5.80	25	12.5	6
7	9.5	11.9	5 S	5.14	3.5	2.81	3 S	0.73		10.7	38	35.1	7
8		13.5	8	9.33		2.99	3	0.78	1.5	16.0	24 S	33.2	8
9		21.0	17	30.8		2.95 A	3	0.76		18.8	15	24.4	9
10	7.0	24.2	9 S	18.8		2.88 E	3	0.75		20.3	14	24.6	10
11		24.5	8	16.9		2.83 E	3	0.73		23.0	22	43.7	11
12		22.2	9	17.3		2.91 E	5	1.26	1.5	23.5	20 S	40.6	12
13		19.7	9	15.3	3.3	3.20 E	6 S	1.66		22.0	16	30.4	13
14		16.8	8	11.6		3.13 E	5	1.35		19.9	15	25.8	14
15		14.7	9	11.4		2.95 E	5	1.27		17.9	15	23.2	15
16	7.0	12.9	9 S	10.0		2.80 E	5	1.21		15.8	15	20.5	16
17		11.3	8	7.81		2.70 E	13	3.03		14.3	18	22.2	17
18		9.91	8	6.85		2.61 A	15	3.38		12.8	18	19.9	18
19		8.77	8	6.06		2.93	21	5.32	1.5	11.5	18 S	17.9	19
20		7.92	7	4.79		2.87	22	5.46		10.4	18	16.2	20
21		7.20	6	3.73	1.5	2.68	23 S	5.33		9.43	18	14.7	21
22	7.0	6.54	4 S	2.26		3.06	26	6.87		8.49	18	13.2	22
23		6.20	4	2.14		3.33	23	6.62		7.97	18	12.4	23
24		5.66	4	1.96		3.51	22	6.67		7.30 B	18	11.4	24
25		5.38	3	1.39		3.62	21	6.57		6.90 B	18	10.7	25
26		5.07	3	1.31		3.75	20	6.48	1.5	6.45 B	19 S	10.6	26
27		4.79	4	1.66		4.23	19	6.94		6.05 B	20	10.5	27
28		4.64	3	1.20	1.5	4.17	18 S	6.49		5.70 B	20	9.85	28
29		4.36	3	1.13		3.98	18	6.19		5.42 B	20	9.37	29
30		4.02	3	1.04		3.95	18	6.14		5.20 B	20	8.99	30
31	3.5	3.74	3 S	0.97					1.5	5.00 B	21 S	9.07	31
TOTAL		324.31		211.13		95.70		96.02		336.51		543.46	TOTAL
MEAN		10.5		6.81		3.19		3.20		10.9		17.5	MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 55 44 N
LONG 56 06 44 W
DRAINAGE AREA 200 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZN008

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		8.13	10	3.57		1.44 E	11	1.37		8.20 E	64	45.3	1
2		2.28	8	1.58		1.38 E	8	0.95		4.51 E	31	12.1	2
3		2.04	6	1.06	1.0	1.15 E	21 S	2.09	2.5	2.87 A	13 S	3.22	3
4		1.72	4	0.59		1.50 E	46	5.96		3.84	12	3.98	4
5		3.54	6	1.84		2.20 E	48	9.12	2.0	6.12	16 S	8.46	5
6	0.5	2.46	4 S	0.85		1.50 E	31	4.02		6.40	14	7.74	6
7		1.68	3	0.44		1.20 E	20	2.07		5.65	14	6.83	7
8		3.26	7	1.97		1.00 E	28	2.42		3.03	10	2.62	8
9		7.84	15	10.2	0.5	7.60 E	152 S	99.8		2.21	8	1.53	9
10		3.17	2	0.55		11.0 E	167	159		1.82	7	1.10	10
11		10.8	19	17.7		3.43 E	51	15.1		1.55	7	0.94	11
12		6.49	14	7.85		4.00 E	49	16.9		1.29	7	0.78	12
13		4.25 A	5	1.84		5.95 E	77	39.6		1.22	7	0.74	13
14		2.70 E	5	1.60		3.40 E	28	8.23		1.12	6	0.58	14
15		3.20 E	5	1.38		2.60 E	11	2.47		5.70	18	8.86	15
16		3.00 E	6	1.56		2.10 E	7	1.27		5.88	15	7.62	16
17		3.60 E	6	1.87		1.80 E	6	0.93		2.75	6	1.43	17
18		3.30 E	11	3.14	1.5	1.60 E	5 S	0.69		10.6	26	23.8	18
19		4.20 E	37	13.4		1.35 E	3	0.35		4.97	12	5.15	19
20		3.18 E	27	7.42		1.20 E	12	1.24	2.0	2.95	3 S	0.76	20
21		2.20 E	21	3.99		1.05 E	32	2.90		2.46	3	0.64	21
22		1.60 E	17	2.35		0.970 E	17	1.42		2.04	3	0.53	22
23		1.30 E	12	1.35		0.880 E	8	0.61		1.80	3	0.47	23
24		1.35 E	8	0.93		0.810 E	3	0.21		1.56	3	0.40	24
25		1.20 E	6	0.62		0.740 E	3	0.19		1.34	2	0.23	25
26		1.05 E	10	0.91		0.680 E	2	0.12		1.26	2	0.22	26
27		1.30 E	40	4.49	2.0	0.709 E	16 S	0.98	2.5	1.35	4 S	0.47	27
28		2.50 E	34	7.34		11.8 E	105	107		1.42	5	0.61	28
29		3.00 E	25	6.48						1.24	5	0.54	29
30		2.00 E	21	3.63						1.59	5	0.69	30
31		1.62 E	16	2.24						2.94	9	2.29	31
TOTAL		96.96		114.74		75.039		487.01		101.68		150.63	TOTAL
MEAN		3.13		3.70		2.68		17.4		3.28		4.86	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		8.53	16	6.26		1.89	9	1.47		0.656	8	0.45	1
2		2.43	13	2.73		2.22	12	2.30		0.717	8	0.50	2
3	5.0	3.75	14 S	4.54		1.81	12	1.88		0.518	7	0.31	3
4		3.44	12	3.57		1.85	13	2.08		0.482	6	0.25	4
5		3.15	7	1.91	6.5	2.36	17 S	3.47	14.0	0.429	4 S	0.15	5
6	7.0	3.50	5 S	1.51		1.92	18	2.99		0.356	3	0.09	6
7		3.60	4	1.24		1.60	17	2.35		0.490	5	0.21	7
8		2.61	5	1.13		1.48	16	2.05		3.61	13	4.05	8
9		1.99	5	0.86		1.20	16	1.66		1.64	9	1.28	9
10		1.81	6	0.94		1.05	16	1.45		2.43	11	2.31	10
11		1.83	6	0.95		1.04	16	1.44		5.51	11	5.24	11
12		1.68	7	1.02		0.950	15	1.23		3.39	7	2.05	12
13		1.59	7	0.96		0.834	14	1.01		2.34	7	1.42	13
14	5.0	1.50	12 S	1.56		0.754	13	0.85		1.65	6	0.86	14
15		2.55	19	4.19		0.719	12	0.75		1.21	6	0.63	15
16		3.73	22	7.09		0.628	11	0.60		1.10	6	0.57	16
17		1.93	18	3.00		0.598	9	0.47		0.919	6	0.48	17
18		1.57	16	2.17		0.644	8	0.45		0.905	5	0.39	18
19		1.37	13	1.54		0.503	6	0.26		0.999	5	0.43	19
20		1.33	12	1.38		0.512	5	0.22		0.927	5	0.40	20
21		1.38	12	1.43	12.0	0.477	3 S	0.12		0.743	4	0.26	21
22		2.84	16	3.93		0.464	3	0.12		1.45	7	0.88	22
23		3.62	17	5.32		0.465	3	0.12		1.83	10	1.58	23
24		3.86	15	5.00		1.06	7	0.64		1.21	9	0.94	24
25		6.11	21	11.1		1.30	8	0.90		0.892	8	0.62	25
26		4.58	18	7.13		1.13	7	0.68	15.0	0.757	8 S	0.52	26
27		2.96	15	3.84		0.799	7	0.48		0.588	8	0.41	27
28		2.20	12	2.28		0.624	7	0.38		0.631	7	0.38	28
29	9.0	1.86	9 S	1.45		0.575	7	0.35		0.783	7	0.47	29
30		1.69	8	1.17		0.547	7	0.33		0.869	7	0.53	30
31						0.570	7	0.34					31
TOTAL		80.99		91.19		32.573		33.44		40.031		28.66	TOTAL
MEAN		2.70		3.04		1.05		1.08		1.33		0.96	MEAN

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZM008

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.726	7	0.44		0.652	8	0.45	18.5	0.452	9 S	0.35	1
2		0.565	6	0.29		0.537	7	0.32		0.435	8	0.30	2
3	18.5	0.478	6 S	0.25		0.472 A	7	0.29		0.406	7	0.25	3
4		0.395	6	0.20		0.478	7	0.29	14.0	0.391	7 S	0.24	4
5		1.02	8	0.71	20.0	0.745	9 S	0.58		0.363	7	0.22	5
6		1.02	4	0.35		0.560	7	0.34		0.367	6	0.19	6
7		1.70	6	0.88		1.00	6	0.52		0.886	15	1.15	7
8		1.15	3	0.30		0.743	6	0.39		1.36	13	1.53	8
9		7.93	21	14.4		0.626	6	0.32		0.794	9	0.62	9
10	13.5	4.60	8 S	3.18		0.567	6	0.29		0.633	6 S	0.33	10
11		2.00	2	0.35		0.485	5	0.21		0.740	26	1.66	11
12		2.27	5	0.98		0.482	5	0.21		5.41	54	25.2	12
13		2.78	7	1.68	19.0	0.595	12 S	0.62		2.44	8 S	1.69	13
14		1.52	3	0.39		1.46	22	2.78		1.98	7	1.20	14
15		4.20	13	4.72		0.725	16	1.00		1.57	8	1.09	15
16		4.50	13	5.05		0.542	11	0.52		1.30	7	0.79	16
17	12.5	2.08	4 S	0.72		0.502	9	0.39		3.69	56 S	17.9	17
18		1.22	2	0.23	13.0	2.55	215 S	47.4		2.24	14	2.71	18
19		0.987	2	0.17		2.44	229	48.3		1.61	7	0.97	19
20		0.842	2	0.15		1.53	131	17.3		3.52	30	9.12	20
21		0.777	2	0.13		1.19	90	9.25		2.20	9	1.71	21
22		0.667	2	0.12		0.866	64	4.79		1.58	11 S	1.50	22
23		0.628	2	0.11		0.709	40	2.45		1.35	43	5.02	23
24		0.522	2	0.09		0.703	18	1.09		4.95	98 S	41.9	24
25		0.447	2	0.08		1.21	25	2.61		8.57	40 S	29.6	25
26		0.456	2	0.08		0.935	22	1.78		3.78	24 S	7.84	26
27		0.412	3	0.11	13.5	0.710	16 S	0.98		2.38	22	4.52	27
28		0.365	3	0.09		0.586	14	0.71		1.80	22 S	3.42	28
29		0.462 A	4	0.16		0.534	12	0.55		1.71	29	4.28	29
30		0.770 E	5	0.33		0.452	10	0.39		2.27	29	5.69	30
31	15.0	1.31 A	7 S	0.79		0.448	9	0.35					31
TOTAL		48.899		37.53		26.034		147.47		61.177		172.99	TOTAL
MEAN		1.58		1.21		0.840		4.76		2.04		5.77	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.70	25	3.67		2.35	9	1.83		1.97	7	1.19	1
2		1.41	22	2.68		2.18	11 S	2.07		1.72	4	0.59	2
3		1.28	20	2.21	7.0	2.11	18 S	3.28		1.50	3	0.39	3
4		3.61	33	10.3		2.03	16	2.81	5.5	1.45	5 S	0.63	4
5		3.96	12	4.11		1.77	16 S	2.45		1.41	5	0.61	5
6	11.0	2.11	10 S	1.82	3.0	1.66	40 S	5.74		2.60	20	4.49	6
7		1.72	11	1.63		2.72	46 S	10.8		3.37	15	4.37	7
8		2.82	30	7.31		14.8	185 S	237		2.44	14	2.95	8
9	10.5	2.81	27 S	6.56		4.43	63 S	24.1		2.23	13	2.50	9
10		22.8	89	175		3.02	45 S	11.7		3.14	21	5.70	10
11		11.1	28	26.9		2.55	32	7.05		3.42	33	9.75	11
12		22.6	100	195		2.37	22 S	4.50		2.51	23	4.99	12
13	9.0	6.82	72 S	42.4	4.5	2.19	12 S	2.27		1.92	9	1.49	13
14	9.0	4.20	60 S	21.8		2.03	12 S	2.10	2.5	1.62	2 S	0.28	14
15		3.23	48	13.4		1.99	13	2.24		1.44	1	0.12	15
16	10.0	2.98	45 S	11.6		2.46	19 S	4.04	5.5	4.49	68 S	26.4	16
17		19.6	140 S	237		3.22	44 S	12.2		4.95	57	24.4	17
18		12.3	17 S	18.1		2.92	46	11.6		2.30	15	2.98	18
19	9.5	5.71	30 S	14.8		6.16	107 S	56.9		2.03	17	2.98	19
20		3.89	49	16.5		4.21	45	16.8		2.31	14	2.79	20
21		3.11	48	12.9		3.17	13 S	3.56		1.79	13	2.01	21
22		2.65	44 S	10.1		5.70	33 S	16.3		1.46	12	1.51	22
23	11.0	2.42	14 S	2.93		4.36	27 S	10.2		1.55	9	1.21	23
24		2.24	12 S	2.32		3.14	48 S	13.0		1.30	5	0.56	24
25		2.06	14	2.49		2.63	48	10.9		1.13	4	0.39	25
26	8.0	1.98	10 S	1.71		37.4	145	469		0.900 B	3	0.23	26
27		2.32	25 S	5.01	5.0	14.5	77 S	96.5		0.820 B	2	0.14	27
28		4.57	198 S	78.2		4.78	23	9.50		0.760 B	2	0.13	28
29	8.0	6.80	100 S	58.8		3.03	8	2.09	0.5	0.660 B	3 S	0.17	29
30		3.46	97	29.0	3.5	2.34	7 S	1.42		0.600 B	4	0.21	30
31		2.57	25 S	5.55						0.880	5	0.38	31
TOTAL		170.83		1 021.80		148.22		1 053.55		60.670		106.54	TOTAL
MEAN		5.51		33.0		4.94		35.1		1.96		3.44	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 3 445.55 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	42		MEAN	9.44	
MAXIMUM DAILY	229	ON AUG 19	MAXIMUM DAILY	469	ON NOV 26
MINIMUM DAILY	1	ON DEC 15	MINIMUM DAILY	0.08	ON JUL 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 47 31 47 N
LONG 52 44 34 W
DRAINAGE AREA 52.7 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		671 B				460 B				430 B			1
2		671 B				460 B				430 B			2
3		672 B				457 B				430 B			3
4		672 B				455 B				430 B			4
5		673 B				455 B				430 B			5
6		670 B				450 B				430 B			6
7		640 B				450 B				430 B			7
8		620 B				450 B				430 B			8
9		600 B				445 B				426 B			9
10		590 B				445 B				425 B			10
11		590 B				445 B				425 B			11
12		580 B				445 B				425 B			12
13		570 B				445 B				425 B			13
14		565 B				440 B				425 B			14
15		555 B				440 B				425 B			15
16		550 B				440 B				425 B			16
17		540 B				440 B				425 B			17
18		530 B				440 B				425 B			18
19		525 B				440 B				420 B			19
20		515 B				440 B				420 B			20
21		510 B				440 B				420 B			21
22		505 B				435 B				420 B			22
23		500 B				435 B				420 B			23
24		490 B				435 B				420 B			24
25		485 B				435 B				420 B			25
26		480 B				435 B				420 B			26
27		480 B				435 B				420 B			27
28		475 B				430 B				420 B			28
29		470 B								420 B			29
30		465 B								420 B			30
31		460 B								420 B			31
TOTAL	17	319			12	422			13	151			TOTAL
MEAN		559				444				424			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		420 B				425 B	10 E	367		11 300	1 340	1 310 000	1
2		420 B				435 B	30 E	1 130		10 800	1 220	1 140 000	2
3		420 B				460 B	50 E	1 990		10 500	1 080	980 000	3
4		420 B				700 B	70 E	4 230		10 100	997	870 000	4
5		420 B			1	200 B	100 E	10 400	12.0	9 610	922 S	766 000	5
6		415 B				1 800 B	300 E	46 700		9 010	856	666 000	6
7		415 B				2 800 B	500 E	121 000		8 490	789	579 000	7
8		415 B				4 400 B	1 000 E	380 000	12.0	8 220	747 S	531 000	8
9	1.0	415 B				6 870 B	1 670 S	991 000		8 680	801	601 000	9
10		415 B				6 510 B	1 450	816 000		8 380	736	533 000	10
11		415 B				6 340 B	1 280	701 000		7 630	572	377 000	11
12		415 B				6 270	1 140	618 000	12.0	6 970	433 S	261 000	12
13		415 B				6 550	1 020	577 000		6 380	378	208 000	13
14		415 B				6 790	983	577 000		5 970	332	171 000	14
15		415 B				6 720	970	563 000	13.0	5 720	287 S	142 000	15
16		415 B				6 300	963	524 000		5 630	293	143 000	16
17		415 B				5 770	966	482 000		5 670	300	147 000	17
18		415 B				5 540	969	464 000		5 850	284	144 000	18
19		415 B				5 720	973	481 000	13.0	5 950	262 S	135 000	19
20		415 B				6 170	982	523 000		5 890	258	131 000	20
21		415 B				6 680	1 000	577 000		5 780	253	126 000	21
22		415 B				6 960	1 010	607 000		5 750	252	125 000	22
23		411 B				7 220	1 030	643 000		5 640	251	122 000	23
24		410 B				7 670	1 040	689 000		5 530	249	119 000	24
25		410 B			2.0	8 250	1 040 S	741 000		5 500	248	118 000	25
26		410 B				8 300	1 020	731 000		5 480	247	117 000	26
27		410 B				8 440	1 000	729 000		5 340	245	113 000	27
28		410 B				8 600	995	739 000		5 210	243	109 000	28
29		415 B			12.0	9 080	984 S	772 000		5 120	242	107 000	29
30		420 B			10	500	1 140	1 030 000		5 030	241	105 000	30
31					11	300	1 360	1 330 000					31
TOTAL	12	453			180	770		16 470 817		211 130		10 996 080	TOTAL
MEAN		415				5 830		531 000		7 040		367 000	MEAN

NORTHWEST TERRITORIES

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4 890	240	101 000		2 890	153	38 200		2 450	161	34 100	1
2		4 700	240	97 500		2 800	153	37 000		2 900	229	57 400	2
3		4 480	240	92 900		2 710	153	35 800		3 030	295	77 200	3
4		4 330	239	89 400		2 610	147	33 100		2 900	292	73 200	4
5	15.0	4 270	234 S	86 300		2 520	139	30 300		2 750	263	62 500	5
6		4 260	225	82 800		2 460	130	27 600		2 620	233	52 700	6
7		4 280	216	79 900		2 390	124	25 600		2 510	202	43 800	7
8		4 270	206	76 000		2 370	115	23 500		2 390	173	35 700	8
9		4 090	196	69 300		2 380	106	21 800		2 290	144	28 500	9
10	15.0	3 850	186 S	61 900	18.0	2 360	99 S	20 200		2 200	116	22 000	10
11		3 680	176	56 000		2 300	93	18 500		2 200	96	18 200	11
12		3 560	172	52 900		2 280	88	17 300		2 360	97	19 800	12
13		3 460	165	49 300		2 220	85	16 300		2 480	102	21 900	13
14		3 380	159	46 400		2 140	82	15 200		2 540	106	23 300	14
15		3 390	152	44 500		2 050	79	14 000		2 580	111	24 700	15
16		3 440	146	43 400		1 990	76	13 100	12.0	2 620	113 S	25 600	16
17	17.0	3 490	139 S	41 900		1 920	72	11 900		2 590	109	24 400	17
18		3 520	134	40 800		1 850	67	10 700		2 510	105	22 800	18
19		3 520	130	39 500		1 780	63	9 690		2 410	102	21 200	19
20		3 510	125	37 900		1 710	59	8 720		2 320	97	19 400	20
21		3 490	121	36 500		1 650	54	7 700		2 290	92	18 200	21
22		3 530	119	36 300		1 600	49	6 770		2 290	86	17 000	22
23		3 500	115	34 800		1 560	45	6 070		2 260	85	16 600	23
24		3 490	109	32 900		1 520	41	5 380		2 230	78	15 000	24
25		3 470	107	32 100		1 500	37	4 800		2 170	70	13 100	25
26		3 450	128	38 200		1 480	33	4 220		2 090	64	11 600	26
27		3 380	151	44 100		1 450	29	3 630		2 010	60	10 400	27
28	18.0	3 220	173 S	48 100		1 450	27	3 380		1 930	57	9 500	28
29		3 110	171	45 900		1 570	43	5 830		1 880	56	9 100	29
30		3 030	163	42 700		1 880	71	11 500		1 830	50	7 910	30
31		2 970	156	40 000		2 010	105	18 200					31
TOTAL		115 010		1 721 200		63 400		505 990		71 630		836 810	TOTAL
MEAN		3 710		55 500		2 050		16 300		2 390		27 900	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1 800	45	7 000		1 230				620 B			1
2		1 740	40	6 010		1 200 E				650 B			2
3		1 700	36	5 290		1 160 A				670 B			3
4		1 680	35	5 080		1 150 A				690 B			4
5		1 650	32	4 560		1 040				700 B			5
6	4.0	1 630	32 S	4 510		1 050				705 B			6
7		1 600	32	4 420		995				700 B			7
8		1 580	30	4 100		1 000				700 B			8
9		1 560	29	3 910		1 070				700 B			9
10		1 540	25	3 330		1 120				700 B			10
11		1 500	23	2 980		1 060				697 B			11
12		1 480	22	2 810		1 020				695 B			12
13		1 450	23	2 880		965				690 B			13
14		1 420	22	2 700		887				685 B			14
15		1 390	22	2 640		963				680 B			15
16		1 380	24	2 860		1 040				680 B			16
17		1 410	26	3 170		990				675 B			17
18		1 480	28	3 580		980				670 B			18
19		1 600	28	3 870		931				670 B			19
20		1 730	27	4 040		870				665 B			20
21		1 840	27	4 290		800 B				665 B			21
22		1 880	25	4 060		740 B				660 B			22
23		1 840	23	3 660		670 B				660 B			23
24		1 760	19	2 890		650 B				660 B			24
25		1 700	18	2 640		620 B				655 B			25
26		1 630	17	2 390		590 B				650 B			26
27		1 580	15	2 050		570 B				650 B			27
28		1 550	15	2 010		575 B				645 B			28
29		1 630	15	2 110		580 B				645 B			29
30		1 420	15	1 840		590 B				640 B			30
31		1 170	15	1 520						640 B			31
TOTAL		49 320		109 200		27 106				20 812			TOTAL
MEAN		1 590		3 520		904				671			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 670 ON MAY 09

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 1 330 000 ON MAY 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 61 44 50 N
LONG 121 13 25 W
DRAINAGE AREA 277 000 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 09	12:00	6 870 H	1.0	1 680 K	12	19	31	42	56	71	87	95	98	99		BNW
MAY 25	08:50	8 250 H	2.0	1 050 K	17	24	36	55	74	93	99	100				BNW
MAY 29	14:40	9 080 H	12.0	980 K	10	19	28	42	61	84	99	100				BNW
JUN 05	09:45	9 670 H	12.0	927 K	22	28	39	54	72	90	99	100				BNW
JUN 08	08:25	8 220 H	12.0	732 K	19	28	40	56	73	89	98	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

NORTHWEST TERRITORIES

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2 640 B				2 990 B				2 600 B			1
2		2 680 B				2 980 B				2 600 B			2
3		2 720 B				2 970 B				2 590 B			3
4		2 750 B				2 960 B				2 590 B			4
5		2 780 B				2 950 B				2 580 B			5
6		2 830 B				2 940 B				2 570 B			6
7		2 860 B				2 920 B				2 540 B			7
8		2 880 B				2 910 B				2 520 B			8
9		2 900 B				2 900 B				2 510 B			9
10		2 920 B				2 880 B				2 500 B			10
11		2 950 B				2 860 B				2 490 B			11
12		2 970 B				2 840 B				2 480 B			12
13		2 990 B				2 820 B				2 470 B			13
14		3 000 B				2 810 B				2 460 B			14
15		3 010 B				2 800 B				2 450 B			15
16		3 020 B				2 780 B				2 440 B			16
17		3 030 B				2 760 B				2 430 B			17
18		3 040 B				2 750 B				2 420 B			18
19		3 050 B				2 740 B				2 410 B			19
20		3 050 B				2 720 B				2 400 B			20
21		3 050 B				2 710 B				2 390 B			21
22		3 050 B				2 700 B				2 380 B			22
23		3 040 B				2 680 B				2 370 B			23
24		3 040 B				2 670 B				2 360 B			24
25		3 030 B				2 660 B				2 350 B			25
26		3 020 B				2 640 B				2 350 B			26
27		3 010 B				2 620 B				2 340 B			27
28		3 010 B				2 610 B				2 340 B			28
29		3 000 B								2 330 B			29
30		3 000 B								2 330 B			30
31		3 000 B								2 320 B			31
TOTAL		91 320				78 570				75 910			TOTAL
MEAN		2 950				2 810				2 450			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2 310 B				2 100 B				25 100	300	651 000	1
2		2 300 B				2 160 B				25 000	308	665 000	2
3		2 300 B				2 240 B				25 100	337	731 000	3
4		2 290 B				2 350 B			10.0	25 700	382 S	848 000	4
5		2 280 B				2 520 B				26 700	387	893 000	5
6		2 270 B				2 720 B			11.0	27 400	390 S	923 000	6
7		2 260 B				2 960 B			12.0	27 600	383 S	913 000	7
8		2 250 B				3 260 B			12.0	27 600	511 S	1 220 000	8
9		2 240 B				3 600 B				26 900	657	1 530 000	9
10		2 230 B				4 040 B			14.0	26 100	783 S	1 770 000	10
11		2 220 B				4 550 B				25 100	733	1 590 000	11
12		2 210 B				5 150 B			14.0	24 400	533 S	1 120 000	12
13		2 210 B				5 900 B				23 900	395	816 000	13
14		2 200 B				7 000 B				23 400	351	710 000	14
15		2 190 B				8 500 B				23 100	338	675 000	15
16		2 180 B				11 000 B				22 600	337	658 000	16
17		2 170 B				16 000 B			14.0	21 900	332 S	628 000	17
18		2 160 B				21 800 B				21 100	320	583 000	18
19		2 150 B				43 200 B				20 300	288	505 000	19
20		2 140 B				26 600 B			15.0	19 400	248 S	416 000	20
21		2 130 B				27 400 B				18 800 A	217	352 000	21
22		2 120 B				28 000 B			14.0	17 700 E	186 S	284 000	22
23		2 110 B				28 200 B				16 600 E	181	260 000	23
24		2 100 B				28 300 B				15 400 E	197	262 000	24
25		2 090 B				28 200 E				13 800 A	232	277 000	25
26		2 070 B				28 000 E				14 300	281	347 000	26
27		2 060 B			8.0	27 800 A	374 S	898 000		15 300	353	467 000	27
28		2 040 B				26 500	327	749 000		15 800	445	607 000	28
29		2 050 B				25 500	293	646 000	13.0	15 800	546 S	745 000	29
30		2 070 B				25 200	291	634 000		15 800	549	749 000	30
31						25 200	294	640 000					31
TOTAL		65 400				457 950				647 700		22 195 000	TOTAL
MEAN		2 180				14 800				21 600		740 000	MEAN

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	14.0	15 800	423 S	577 000		12 100	51	53 300		8 290	44	31 500	1
2		15 800	307	419 000		12 200	51	53 800	11.0	8 220	48 S	34 100	2
3		15 700	228	309 000		12 500	60	64 800		7 950	49	33 700	3
4	14.0	15 400	175 S	233 000		12 400	77	82 500	10.0	7 770	48 S	32 200	4
5		15 100	152	198 000		12 100	100	105 000		7 730	40	26 700	5
6		14 900	148	191 000	16.0	11 800	142 S	145 000		7 780	40	26 900	6
7		14 800	153	196 000		11 700	145	147 000		7 850	41	27 800	7
8		14 700	154	196 000		11 500	145	144 000		8 000	44	30 400	8
9	15.0	14 500 A	149 S	187 000		11 000	141	134 000	10.0	8 190	48 S	34 000	9
10		14 300 E	148	183 000		10 700	138	128 000		8 290	47	33 700	10
11		14 100 E	152	185 000	17.0	10 500	139 S	126 000	10.0	8 310	48 S	34 500	11
12		13 800 E	141	168 000		10 100	133	116 000		8 270	58	41 400	12
13		13 600 E	145	170 000		9 830	123	104 000		8 180	79	55 800	13
14		13 400 E	143	166 000		9 610	109	90 500	10.0	8 110	101 S	70 800	14
15		13 200 E	135	154 000		9 440	99	80 700		8 070	111	77 400	15
16	16.0	13 000 A	140 S	157 000		9 300	86	69 100	11.0	8 040	149 S	104 000	16
17		12 800	145	160 000		9 260	69	55 200		8 170	196	138 000	17
18		12 500	137	148 000		9 130	62	48 900	10.0	8 310	173 S	124 000	18
19		12 200	129	136 000		9 010	63	49 000		8 260	119	84 900	19
20		12 200	110	116 000		8 990	61	47 400		8 430	90	65 600	20
21		12 200	92	97 000		8 980	53	41 100	9.0	8 440	78 S	56 900	21
22		12 300	72	76 500		8 770	43	32 600		8 300	70	50 200	22
23	16.0	12 300	67 S	71 200		8 690	38	28 500	9.0	8 160	69 S	48 600	23
24		12 400	67	71 800		8 500	40	29 400		8 110	80	56 100	24
25		12 400	65	69 600	16.0	8 350	39 S	28 100	9.0	8 130	74 S	52 000	25
26		12 400	67	71 800		8 290	48	34 400		8 070	59	41 100	26
27		12 500	73	78 800	10.0	8 210	58 S	41 100		7 970	44	30 300	27
28		12 500	77	83 200		8 100	62	43 400	7.0	7 980	34 S	23 400	28
29		12 400	75	80 400	11.0	8 000	51 S	35 300		8 190	55	38 900	29
30	19.0	12 400	77 S	82 500		7 870	31	21 100	7.0	8 070	50 S	34 900	30
31		12 200	70	73 800	11.0	8 000	36 S	24 900					31
TOTAL		417 800		5 105 600		304 930		2 204 100		243 640		1 539 800	TOTAL
MEAN		13 500		165 000		9 840		71 100		8 120		51 300	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		8 120	43	30 200		6 680 B				2 890 B			1
2	6.0	8 240	35 S	24 900		6 580 B				2 830 B			2
3		8 040	25	17 400		6 480 B				2 780 B			3
4		7 780	25	16 800		6 360 B				2 720 B			4
5	4.0	7 840	40 S	27 100		6 260 B				2 680 B			5
6		7 920	53	36 300		6 100 B				2 620 B			6
7	3.0	8 030	48 S	33 300		6 000 B				2 590 B			7
8		7 930	61	41 800		5 860 B				2 560 B			8
9	3.0	7 730	54 S	36 100		5 700 B				2 500 B			9
10		7 560	34	22 200		5 540 B				2 460 B			10
11		7 330	30	19 000		5 350 B				2 420 B			11
12	3.0	7 160	35 S	21 700		5 180 B				2 390 B			12
13		7 050	42	25 600		5 050 B				2 360 B			13
14	3.0	7 000	44 S	26 600		4 850 B				2 340 B			14
15		7 020	43	26 100		4 700 B				2 320 B			15
16	2.0	7 100	40 S	24 500		4 560 B				2 300 B			16
17		7 130	37	22 800		4 420 B				2 280 B			17
18		7 210	38	23 700		4 260 B				2 260 B			18
19	1.0	7 190	36 S	22 400		4 120 B				2 250 B			19
20		7 120	35 E	21 500		4 000 B				2 230 B			20
21		7 010	30 E	18 200		3 850 B				2 220 B			21
22		6 900	30 E	17 900		3 720 B				2 200 B			22
23		6 870	30 E	17 800		3 600 B				2 190 B			23
24		6 690	30 E	17 300		3 500 B				2 180 B			24
25		6 510	30 E	16 900		3 400 B				2 170 B			25
26		6 810 B	25 E	14 700		3 320 B				2 160 B			26
27		6 820 B	25 E	14 700		3 220 B				2 150 B			27
28		6 840 B	25 E	14 800		3 120 B				2 150 B			28
29		6 820 B	25 E	14 700		3 040 B				2 150 B			29
30		6 800 B	25 E	14 700		2 960 B				2 160 B			30
31		6 750 B	25 E	14 600						2 170 B			31
TOTAL		225 320		696 300		141 780				73 680			TOTAL
MEAN		7 270		22 500		4 730				2 380			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 67 21 30 N
LONG 133 33 30 W
DRAINAGE AREA 1 660 000 km^2
REGULATED FLOW SINCE 1968

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NORTHWEST TERRITORIES

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 04	17:25	25 700 H	10.0	393 K	21	29	47	73	88	95	98	99	100			BNW
JUN 07	17:10	26 700 H	12.0	372 K	16	28	52	75	88	95	97	99	100			BNW
JUN 10	21:15	26 100 H	14.0	825 K	42	47	66	86	96	98	99	100				BNW
JUN 29	21:34	15 800 H	13.0	588 K	34	44	65	84	94	97	99	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		11.7 B	5	5.05		6.10 B	3	1.58	2.5	23.5	3 S	6.09	1
2		10.7 B	5	4.62		6.00 B	3	1.56		21.5	3	5.57	2
3		10.0 B	4	3.46		24.4 B	8	16.9		19.4	3	5.03	3
4		9.40 B	4	3.25		45.9 B	8	31.7		17.2	2	2.97	4
5		8.80 B	4	3.04		40.3 B	6	20.9		15.4	2	2.66	5
6		8.40 B	4	2.90		34.0 B	6	17.6		14.3	3	3.71	6
7		8.25 B	4	2.85		28.5 B	4	9.85		14.0	3	3.63	7
8		37.8	4	13.1		26.2 B	4	9.05		13.6	3	3.53	8
9		43.8	4	15.1		28.3 B	5	12.2		12.4	3	3.21	9
10		41.0	4	14.2		29.0 B	6	15.0		11.6	3	3.01	10
11		36.5	4	12.6		26.8 B	6	13.9		11.0	3	2.85	11
12		32.1	4	11.1		80.0 B	14	96.8		10.3	3	2.67	12
13		26.4 B	4	9.12		145	14	175		9.65	2	1.67	13
14		21.4 B	4	7.40		121	13	136		9.47	3	2.45	14
15		18.7 B	4	6.46		87.8	13	98.6		11.9	5	5.14	15
16		16.3 B	4	5.63		61.2	12	63.5		11.5	3	2.98	16
17		14.4 B	4	4.98		45.8	12	47.5	1.0	17.7	36 S	55.1	17
18		13.0 B	3	3.37		43.2	12	44.8		31.0	51	137	18
19		11.8 B	3	3.06		40.1	12	41.6		30.1	21	54.6	19
20		11.0 B	3	2.85	1.0	34.8	11 S	33.1	0.5	26.6	9 S	20.7	20
21		10.3 B	3	2.67		32.5	8	22.5		22.0	5	9.50	21
22		9.80 B	3	2.54	2.0	34.8	10 S	30.1	1.0	18.4	5 S	7.95	22
23		9.35 B	3	2.42		31.8	7	19.2		17.2	5	7.43	23
24		8.80 B	3	2.28		28.3	6	14.7		17.9	7	10.8	24
25		8.35 B	3	2.16		25.8	5	11.1		18.9	8	13.1	25
26		7.95 B	3	2.06	3.0	25.5	4 S	8.81		17.3	6	8.97	26
27		7.55 B	3	1.96		27.1	3	7.02		17.1	6	8.86	27
28		7.15 B	5	3.09		25.9	3	6.71	4.0	17.5	10 S	15.1	28
29		6.80 B	3	1.76						16.2	6	8.40	29
30		6.50 B	4	2.25						17.8	7	10.8	30
31		6.30 B	3	1.63					6.0	43.1	74 S	276	31
TOTAL		480.30		158.96		1 186.10		1 007.28		555.52		701.48	TOTAL
MEAN		15.5		5.13		42.4		36.0		17.9		22.6	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	3.0	60.7	22 S	115	11.0	17.9	16 S	24.7		8.06	5	3.48	1
2	6.0	52.1	10 S	45.0		14.6	7	8.83		6.98	5	3.02	2
3	6.5	48.2	7 S	29.2		12.6	6	6.53		6.04	5	2.61	3
4		45.3	6	23.5		11.4	5	4.92		5.58	4	1.93	4
5	9.0	42.9	6 S	22.2	5.0	10.7	4 S	3.70		5.94	3	1.54	5
6	10.0	47.1	10 S	40.7		10.2	4	3.53		5.64	3	1.46	6
7	8.0	51.8	8 S	35.8		10.9	10	9.42		5.02	3	1.30	7
8	9.0	42.4	4 S	14.7		11.9	7	7.20		4.55	3	1.18	8
9	10.0	31.6	4 S	10.9		10.3	3	2.67		4.67	4	1.61	9
10	11.0	27.2	4 S	9.40		9.07	3	2.35		9.93	7	6.01	10
11		24.3	3	6.30		8.76	3	2.27	15.0	12.1	19 S	19.9	11
12		20.6	3	5.34		8.00	3	2.07		10.1	8	6.98	12
13	8.5	17.6	3 S	4.56		8.89	3	2.30		8.05	9	6.26	13
14		15.3	3	3.97	16.0	10.8	12 S	11.2		6.40	9	4.98	14
15		14.6	3	3.78		9.25	3	2.40		5.56	8	3.84	15
16		13.5	3	3.50		8.09	2	1.40		5.17	8	3.57	16
17		12.3	3	3.19		9.60	8	6.64	16.0	6.59	12 S	6.83	17
18		12.8	5	5.53		10.6	10	9.16		6.35	6	3.29	18
19	8.0	15.8	9 S	12.3		9.31	4	3.22		5.25	5	2.27	19
20		14.2	4	4.91		8.08	4	2.79		4.67	4	1.61	20
21		12.9	3	3.34		7.14	4	2.47	18.0	7.42	17 S	10.9	21
22		12.7	3	3.29	14.0	6.48	9 S	5.04		9.38	4	3.24	22
23	8.0	11.6	3 S	3.01		7.83	4	2.71	19.0	12.5	31 S	33.5	23
24		11.3	3	2.93		16.9	38	55.5		10.6	22	20.1	24
25		15.5	21	28.1	10.0	18.7	16 S	25.9		8.06	19	13.2	25
26		14.8	11	14.1		16.5	7	9.98	17.5	10.8	28 S	22.4	26
27		12.7	8	8.78		13.7	7	8.29		10.6	13	11.9	27
28		11.1	6	5.75		11.3	7	6.83		7.37	10	6.37	28
29		10.4	3	2.70		9.69	7	5.86		5.71	7	3.45	29
30		18.2	27	42.5		8.61	6	4.46		4.90	5	2.12	30
31						7.91	4	2.73					31
TOTAL		741.5		514.28		335.71		247.07		219.99		210.85	TOTAL
MEAN		24.7		17.1		10.8		7.97		7.33		7.03	MEAN

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4.51	3	1.17		2.89	3	0.75		1.45	4	0.50	1
2		4.20	3	1.09		2.69	3	0.70		1.45	3	0.38	2
3		3.80	3	0.98		2.74	3	0.71		1.43	3	0.37	3
4		3.72	3	0.96		2.63	3	0.68		1.47	3	0.38	4
5		3.75	3	0.97		2.49	3	0.65		1.36	3	0.35	5
6		5.26	4	1.82		3.29	4	1.14	17.0	1.34	3 S	0.35	6
7		5.74	9	4.46		4.82	6	2.50		1.26	3	0.33	7
8		4.81	5	2.08		4.74	5	2.05		1.24	3	0.32	8
9	21.0	4.32	4 S	1.49		4.34	5	1.87		1.21	3	0.31	9
10		3.85	3	1.00		3.92	4	1.35		1.19	3	0.31	10
11		3.49	2	0.60	21.0	3.60	4 S	1.24		1.15	3	0.30	11
12		3.33	3	0.86		3.59	4	1.24		1.14	3	0.30	12
13		3.30	2	0.57		4.25	3	1.10		1.12	3	0.29	13
14		4.07	2	0.70		4.38	4	1.51		1.09	3	0.28	14
15		4.96	5	2.14		3.83	4	1.32		1.16	3	0.30	15
16		5.17	8	3.57		3.40	3	0.88		1.20	3	0.31	16
17		4.25	8	2.94		3.20	3	0.83		1.29	3	0.33	17
18	18.0	3.69	8 S	2.55		3.05	4	1.05		1.28	3	0.33	18
19		3.40	6	1.76		2.89	4	1.00		1.23	3	0.32	19
20		3.31	4	1.14		2.71	4	0.94	15.0	1.32	3 S	0.34	20
21		3.45	3	0.89		2.57	4	0.89		1.33	3	0.34	21
22		4.34	4	1.50		2.45	4	0.85		1.29	3	0.33	22
23		3.84	4	1.33	18.0	2.35	4 S	0.81	13.0	7.51	17 S	11.0	23
24		3.49	4	1.21		2.25	4	0.78		10.4	17	15.3	24
25		3.12	3	0.81		2.02	4	0.70		12.3	18	19.1	25
26	18.0	2.89	3 S	0.75		2.01	4	0.69		10.2	9	7.93	26
27		2.89	3	0.75		1.88	4	0.65		7.35	7	4.45	27
28		3.16	3	0.82		1.76	4	0.61	13.0	5.41	5 S	2.34	28
29		3.12	3	0.81		1.69	4	0.58		4.56	5	1.97	29
30		3.04	3	0.79		1.61	4	0.56		3.83	5	1.65	30
31		3.06	3	0.79		1.55	4	0.54					31
TOTAL		119.33		43.30		91.59		31.17		89.56		71.11	TOTAL
MEAN		3.85		1.40		2.95		1.01		2.99		2.37	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		3.36	5	1.45		20.2	6	10.5		12.2	4	4.22	1
2		3.11	4	1.07		16.4	7	9.92		14.2	4	4.91	2
3		6.50	17	9.55		14.1	7	8.53	5.0	38.2	18 S	59.4	3
4		7.58	12	7.86		12.2	7	7.38	6.5	42.8	13 S	48.1	4
5		5.78	9	4.49		10.6	7	6.41		37.9	6	19.6	5
6		4.75	8	3.28		9.76	7	5.90	5.5	39.0	15 S	50.5	6
7	11.0	5.89	16 S	8.14	8.0	15.3	23 S	30.4		39.1	7	23.6	7
8		10.4	17	15.3		17.6	20	30.4		36.1	6	18.7	8
9	11.0	9.51	11 S	9.04	9.0	15.5	8 S	10.7		30.2	6	15.7	9
10		8.10	10	7.00		13.0	4	4.49		27.4	7	16.6	10
11		7.27	10	6.28		11.3	4	3.91		30.8	11	29.3	11
12		6.20	10	5.36		10.3	4	3.56		29.5	5	12.7	12
13		5.24	9	4.07		9.35	3	2.42		26.4	5	11.4	13
14		4.74	8	3.28		8.44	3	2.19		21.7	6	11.2	14
15		4.33	7	2.62		8.08	3	2.09		19.1	9	14.9	15
16		3.96	6	2.05		10.3	5	4.45	4.0	38.5	55 S	183	16
17		3.75	5	1.62	8.0	19.8	24 S	41.1	3.5	49.0	15 S	63.5	17
18		3.57	5	1.54	7.0	34.8	34 S	102		43.4	9	33.7	18
19	10.0	5.05	7 S	3.05	7.0	48.0	21 S	87.1		33.1	8	22.9	19
20		15.6	28	37.7	6.0	43.7	11 S	41.5		26.3	6	13.6	20
21		15.1	13	17.0	7.0	60.9	54 S	284	0.5	21.6	4 S	7.46	21
22		11.9	11	11.3	7.0	69.3	21 S	126		19.8	4	6.84	22
23		9.61	10	8.30	6.0	54.7	8 S	37.8		20.6	3	5.34	23
24		11.4	15	14.8		37.8	7	22.9		19.4	3	5.03	24
25		17.1	21	31.0		28.0	6	14.5		17.4	3	4.51	25
26		16.0	17	23.5		22.0	6	11.4		15.3	2	2.64	26
27	9.0	26.7	31 S	71.5		18.2	5	7.86		13.7	2	2.37	27
28	11.0	37.5	45 S	146		16.1	5	6.96		12.6	1	1.09	28
29	10.0	45.1	18 S	70.1	4.0	15.3	4 S	5.29	0.5	12.2	1 S	1.05	29
30		36.3	10	31.4		13.9	4	4.80		13.7	2	2.37	30
31	11.0	27.8	7 S	16.8					0.5	14.0	3 S	3.63	31
TOTAL		379.20		576.45		684.93		936.46		815.2		699.86	TOTAL
MEAN		12.2		18.6		22.8		31.2		26.3		22.6	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	11
MAXIMUM DAILY	74 ON MAR 31
MINIMUM DAILY	1 ON DEC 28

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	14.2
MAXIMUM DAILY	284 ON NOV 21
MINIMUM DAILY	0.28 ON SEP 14

TOTAL SUSPENDED SEDIMENT LOAD 5 198.27 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 44 56 59 N
LONG 65 01 47 W
DRAINAGE AREA 546 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.60 B	1	0.40		0.790 B	1	0.07		1.85 B	2	0.32	1
2		3.60 B	1	0.31	0.1	0.740 B	1 S	0.06	0.1	1.70 B	2 S	0.29	2
3		3.00 B	1	0.26		3.00 B	14	3.63		1.60 B	2	0.28	3
4		2.55 B	1	0.22		10.0 B	8	6.91		1.50 B	2	0.26	4
5	0.1	2.20 B	1 S	0.19		7.30 B	1	0.63		1.40 B	1	0.12	5
6		1.94 B	1	0.17		5.90 B	1	0.51		1.35 B	1	0.12	6
7		1.60 B	2	0.28		4.90 B	1	0.42		1.24 B	1	0.11	7
8		5.60 B	8	3.87		4.00 B	1	0.35		1.17 B	1	0.10	8
9		4.50 B	4	1.56	0.1	5.30 B	1 S	0.46	0.6	1.03 B	1 S	0.09	9
10		3.60 B	1	0.31		4.70 B	1	0.41		1.05	1	0.09	10
11		3.10 B	1	0.27		4.20 B	1	0.36		0.963	1	0.08	11
12		2.70 B	1	0.23		14.5 B	15	18.8		0.992	1	0.09	12
13		2.37 B	1	0.20		10.5 B	13	11.8		1.01	1	0.09	13
14		2.05 B	1	0.18		8.50 B	5	3.67		1.09	1	0.09	14
15		1.87 B	1	0.16		6.80 B	4	2.35		1.99	1	0.17	15
16		1.70 B	1	0.15	0.1	5.50 B	3 S	1.43	0.1	1.96	1 S	0.17	16
17		1.53 B	1	0.13		4.50 B	3	1.17		3.32	3	0.86	17
18		1.42 B	1	0.12		3.80 B	2	0.66		5.96	3	1.54	18
19	0.1	1.29 B	1 S	0.11		3.23 B	2	0.56		4.03	1	0.35	19
20		1.21 B	1	0.10		2.90 B	2	0.50		2.96	1	0.26	20
21		1.13 B	1	0.10		2.60 B	2	0.45		2.25	1	0.19	21
22		1.06 B	1	0.09		2.50 B	1	0.22		2.05	1	0.18	22
23		0.980 B	1	0.08	0.1	2.30 B	1 S	0.20	0.1	1.73	1 S	0.15	23
24		0.920 B	1	0.08		2.20 B	1	0.19		1.63 B	1	0.14	24
25		0.880 B	1	0.08		2.10 B	1	0.18		1.57 B	1	0.14	25
26	0.1	0.830 B	1 S	0.07		2.20 B	1	0.19		1.50 B	1	0.13	26
27		0.800 B	1	0.07		2.30 B	1	0.20		2.00	1	0.17	27
28		0.850 B	1	0.07		2.10 B	1	0.18		2.22	1	0.19	28
29		1.02 B	1	0.09						1.99	1	0.17	29
30		0.910 B	1	0.08						2.23	1	0.19	30
31		0.850 B	1	0.07						8.19	6	4.25	31
TOTAL		62.660		10.10		129.360		56.56		65.525		11.38	TOTAL
MEAN		2.02		0.33		4.62		2.02		2.11		0.37	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	3.3	6.57	3 S	1.70		2.04	1	0.18		1.75 E	1	0.15	1
2		5.55	2	0.96		1.52	1	0.13	13.3	1.62 E	1 S	0.14	2
3		10.0	9	7.78		1.26	1	0.11		1.49 E	1	0.13	3
4		6.97	1	0.60	6.7	1.18 A	1 S	0.10		1.39 E	1	0.12	4
5		9.37	3	2.43		1.09 A	1	0.09		1.30 E	1	0.11	5
6		11.1	10	9.59		1.06	1	0.09		1.27 E	1	0.11	6
7	5.6	8.21	4 S	2.84		1.39	1	0.12		1.22 E	1	0.11	7
8		4.20	2	0.73		1.37	1	0.12		1.09 A	1	0.09	8
9		2.97	2	0.51		1.05	1	0.09	13.9	0.929	1 S	0.08	9
10		2.82	2	0.49		0.970	1	0.08		2.38	4	0.82	10
11		2.44	1	0.21	11.1	0.779	1 S	0.07		2.27	2	0.39	11
12		2.04	1	0.18		0.740	1	0.06		1.55	1	0.13	12
13	6.1	1.70	1 S	0.15		1.04	3	0.27		1.26	1	0.11	13
14		1.51	1	0.13		1.47	2	0.25		1.02	1	0.09	14
15		2.61	4	0.90		1.01	1	0.09	14.4	0.826	1 S	0.07	15
16		2.04	1	0.18		0.830	1	0.07		0.767	1	0.07	16
17		1.58	1	0.14		2.56	5	1.11		0.845	1	0.07	17
18		1.63	1	0.14		2.70	4	0.93		0.826	1	0.07	18
19		2.38	2	0.41	8.3	1.62 A	1 S	0.14		0.670	1	0.06	19
20		1.85	1	0.16		1.49 E	1	0.13		0.538	1	0.05	20
21		1.58	1	0.14		1.38 E	1	0.12		1.77	3	0.46	21
22	2.2	1.51	1 S	0.13		1.30 E	1	0.11	15.6	2.21	4 S	0.76	22
23		1.35	1	0.12		1.70 E	1	0.15		5.75	8	3.97	23
24		1.30	1	0.11		4.40 E	1	0.38		3.13	4	1.08	24
25		1.29	1	0.11	8.9	5.40 A	1 S	0.47		2.35	5	1.02	25
26		1.23	1	0.11		3.90 E	1	0.34		16.1	28	38.9	26
27		1.09	1	0.09		3.20 E	1	0.28		6.40	12	6.64	27
28	6.7	0.933	1 S	0.08		2.70 E	1	0.23		2.93	4	1.01	28
29		1.06	1	0.09		2.38 E	1	0.21	14.4	1.81	3 S	0.47	29
30		2.91	5	1.26		2.14 E	1	0.18		1.34	3	0.35	30
31						1.93 E	1	0.17					31
TOTAL		101.793		32.47		57.599		6.87		68.801		57.63	TOTAL
MEAN		3.39		1.08		1.86		0.22		2.29		1.92	MEAN

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.07	3	0.28		0.250 E	1	0.02	21.7	0.081	1 S	0.01	1
2		0.965	3	0.25		0.210 E	1	0.02		0.078	1	0.01	2
3		0.753	2	0.13		0.197	1	0.02		0.077	1	0.01	3
4		0.652	2	0.11	21.7	0.182	1 S	0.02		0.075	1	0.01	4
5		0.588	2	0.10		0.184	1	0.02		0.070	1	0.01	5
6	17.8	0.673	2 S	0.12		0.187	1	0.02		0.065	1	0.01	6
7		0.814	2	0.14		0.263	1	0.02		0.067	1	0.01	7
8		0.652	2	0.11		0.288	1	0.02	17.8	0.070	1 S	0.01	8
9		0.562	3	0.15		0.315	1	0.03		0.070	1	0.01	9
10		0.496	3	0.13		0.284	1	0.02		0.072	1	0.01	10
11		0.419	3	0.11		0.222	1	0.02		0.074	1	0.01	11
12		0.417	3	0.11		0.236	1	0.02		0.071	1	0.01	12
13	19.4	0.398	3 S	0.10		0.337	1	0.03		0.073	1	0.01	13
14		0.471	3	0.12		0.322	1	0.03		0.066	1	0.01	14
15		0.551	3	0.14		0.287	1	0.02	16.7	0.054	1 S	0	15
16		0.573	3	0.15		0.220	1	0.02		0.060	1	0.01	16
17		0.433	2	0.07	20.0	0.189	1 S	0.02		0.053	1	0	17
18		0.341	2	0.06		0.404	1	0.03		0.059	1	0.01	18
19		0.285	2	0.05		0.500	1	0.04		0.056	1	0	19
20	23.3	0.269	2 S	0.05		0.345	1	0.03		0.063	1	0.01	20
21		0.353	3	0.09		0.262	1	0.02	12.8	0.070	1 S	0.01	21
22		1.05	4	0.36		0.207	1	0.02		0.070	5	0.03	22
23		0.590	1	0.05		0.190	1	0.02		1.69	5	0.73	23
24		0.396	1	0.03	22.2	0.156	1 S	0.01		1.76	7	1.06	24
25		0.296	1	0.03		0.137	1	0.01		2.20	2	0.38	25
26		0.253	1	0.02		0.133	1	0.01		1.51	1	0.13	26
27	19.4	0.221	1 S	0.02		0.127	1	0.01	13.3	0.944	1 S	0.08	27
28		0.342	1	0.03		0.119	1	0.01		0.660	1	0.06	28
29		0.300 E	1	0.03		0.097	1	0.01		0.568	1	0.05	29
30		0.350 E	1	0.03		0.089	1	0.01		0.460	1	0.04	30
31		0.295 E	1	0.03		0.088	1	0.01					31
TOTAL		15.828		3.20		7.027		0.61		11.286		2.74	TOTAL
MEAN		0.510		0.10		0.226		0.02		0.376		0.09	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.383	1	0.03		1.86	1	0.16		1.27	1	0.11	1
2		0.365	3	0.09	6.1	1.96	1 S	0.17		3.39	8	2.34	2
3		1.25	3	0.32		1.61	1	0.14		29.1	43	108	3
4		1.14	2	0.20		1.32	1	0.11		10.9	14	13.2	4
5	10.0	0.860	2 S	0.15		1.13	1	0.10		4.97	2	0.86	5
6		0.632	2	0.11		1.61	1	0.14		8.23	4	2.84	6
7		1.21	5	0.52		7.41	10	6.40	7.8	6.81	1 S	0.59	7
8		2.04	2	0.35		5.05	2	0.87		4.01	1	0.35	8
9		1.72	1	0.15	6.1	3.00	1 S	0.26		2.87	1	0.25	9
10		1.48	1	0.13		2.01	1	0.17		2.49	1	0.22	10
11		1.17	1	0.10		1.61	1	0.14		2.58	1	0.22	11
12		0.935	1	0.08		1.49	1	0.13		2.27	1	0.20	12
13	6.7	0.767	1 S	0.07		1.24	1	0.11		1.83	1	0.16	13
14		0.661	1	0.06		1.09	1	0.09	0.1	1.65	1 S	0.14	14
15		0.577	1	0.05		1.01	1	0.09		1.71	1	0.15	15
16		0.524	1	0.05	6.1	1.00	1 S	0.09		14.8	16	20.5	16
17		0.495	1	0.04		4.59	5	1.98		11.5	6	5.96	17
18		0.454	1	0.04		10.2	9	7.93		4.51	1	0.39	18
19	10.6	4.26	8 S	2.94		12.0	15	15.6		2.87	1	0.25	19
20	6.1	8.75	8 S	6.05		5.44	7	3.29		2.25	1	0.19	20
21		3.57	3	0.93		21.1	31	56.5	0.1	2.32	1 S	0.20	21
22		2.12	2	0.37		11.3	18	17.6		2.39	1	0.21	22
23		1.59	1	0.14	5.0	4.60	1 S	0.40		2.43	1	0.21	23
24		2.99	4	1.03		2.95	1	0.25		2.03	1	0.18	24
25		3.54	2	0.61		2.21	1	0.19		1.82	1	0.16	25
26	6.1	2.41	2 S	0.42		1.89	1	0.16		1.60 B	1	0.14	26
27		5.68	4	1.96		1.63	1	0.14		1.40 B	1	0.12	27
28		7.55	8	5.22		1.45	1	0.13		1.30 B	1	0.11	28
29		7.17	8	4.96		1.46	1	0.13		1.05 B	1	0.09	29
30		3.60	1	0.31	0.6	1.22	1 S	0.11		0.950 B	1	0.08	30
31		2.31	1	0.20						0.900 B	1	0.08	31
TOTAL		72.203		27.68		116.44		113.58		138.200		158.50	TOTAL
MEAN		2.33		0.89		3.88		3.79		4.46		5.11	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 481.32 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	7		MEAN	1.32	
MAXIMUM DAILY	43	ON DEC 03	MAXIMUM DAILY	108	ON DEC 03
MINIMUM DAILY	1	ON JAN 01	MINIMUM DAILY	0	ON SEP 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 35 10 N
LONG 64 27 05 W
DRAINAGE AREA 63.2 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DF004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		6.60 B				0.520 B				4.42			1
2		5.20 B				1.50 B				3.73			2
3		4.30 B				3.50 B				3.26			3
4		3.60 B				11.0 B				2.88			4
5		3.15 B				9.10 B				2.65			5
6		2.75 B				7.80 B				2.42			6
7		2.50 B				6.60 B				2.30			7
8		3.50 B				5.80 B				2.16			8
9		4.60 B				7.80 B				2.00			9
10		6.00 B				6.90 B				1.79			10
11		8.00 B				6.00 B				1.77			11
12		10.2 B				20.0 B				1.71			12
13		4.00 B				13.0 B				1.62			13
14		2.00 B				9.00 B				1.60			14
15		1.00 B				7.30 B				1.85			15
16		0.820 B				6.00 B				1.80			16
17		0.760 B				5.00 B				5.80 A			17
18		0.740 B				4.20 B				8.60 E			18
19		0.680 B				4.00 B				4.80 A			19
20		0.640 B				3.70 B				3.93			20
21		0.600 B				3.50 B				3.28			21
22		0.560 B				3.40 B				3.01			22
23		0.530 B				3.30 B				2.72			23
24		0.520 B				3.25 B				2.58			24
25		0.580 B				3.20 B				2.31			25
26		0.640 B				5.25				2.15			26
27		0.730 B				7.30				2.18			27
28		0.620 B				5.93				2.18			28
29		0.600 B								1.98			29
30		0.560 B								2.14			30
31		0.530 B								6.40 A			31
TOTAL		77.510				173.850				92.02			TOTAL
MEAN		2.50				6.21				2.97			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		6.60 E				2.98	1	0.26	17.0	1.98	5 S	0.86	1
2		6.30 E				3.31	2	0.57		1.45	5	0.63	2
3		11.0 E				6.45	5	2.79		1.22	4	0.42	3
4		10.2 E			9.0	8.54	5 S	3.69		1.14	4	0.39	4
5		16.0 E				6.04	3	1.57		1.05	4	0.36	5
6		18.0 A				4.74	3	1.23		0.868	4	0.30	6
7		8.89				4.37	3	1.13		0.840	3	0.22	7
8		5.95				3.71	3	0.96	19.0	0.934	3 S	0.24	8
9		4.59				2.89	2	0.50		1.99	4	0.69	9
10		4.47				2.48	2	0.43		5.38	6	2.79	10
11		3.70			5.0	2.19	2 S	0.38		3.59	2	0.62	11
12		3.19				2.02	2	0.35		2.16	1	0.19	12
13		2.70				2.10	2	0.36		1.69	2	0.29	13
14		2.37				2.10	2	0.36		1.41	2	0.24	14
15		3.03				1.71	1	0.15	16.0	1.20	2 S	0.21	15
16		2.37				1.49	1	0.13		1.06	2	0.18	16
17		2.17				2.21	4	0.76		1.15	2	0.20	17
18		2.20				2.15	4	0.74		1.01	2	0.17	18
19		3.50			2.0	1.50	4 S	0.52		0.762	2	0.13	19
20		2.54				1.23	4	0.43		0.700	2	0.12	20
21		2.29				1.14	3	0.30		2.48	7	1.50	21
22		2.24				1.13	3	0.29	20.0	2.02	5 S	0.87	22
23		3.38				9.06	9	7.05		2.07	4	0.72	23
24		3.76				16.0	24	33.2		1.30	2	0.22	24
25		3.97			6.0	9.14	14 S	11.1		0.984	2	0.17	25
26		3.48				5.63	11	5.35		2.02	6	1.05	26
27		3.05				3.92	11	3.73		1.86	2	0.32	27
28		2.57				3.11	10	2.69		1.13	2	0.20	28
29		2.43				2.46	8	1.70	20.0	0.892	2 S	0.15	29
30		4.18				2.12	7	1.28		0.752	2	0.13	30
31						2.10	6	1.09					31
TOTAL		151.12				120.02		85.09		47.092		14.58	TOTAL
MEAN		5.04				3.87		2.74		1.57		0.49	MEAN

NOVA SCOTIA

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.668	2	0.12		0.459	1	0.04		0.251	1	0.02	1
2		0.614	2	0.11		0.348	1	0.03		0.241	1	0.02	2
3		0.544	2	0.09		0.293	1	0.03		0.247	2	0.04	3
4		0.602	2	0.10		0.247	1	0.02		0.249	2	0.04	4
5		0.639	2	0.11		0.243	1	0.02		0.250	2	0.04	5
6	20.0	1.97	4 S	0.68		0.251	1	0.02		0.252	2	0.04	6
7		1.91	3	0.50		1.37	3	0.36		0.247	2	0.04	7
8		2.62	3	0.68		0.836	1	0.07	22.0	0.260	2 S	0.04	8
9		1.82	1	0.16		0.594	1	0.05		0.280	2	0.05	9
10		1.13	2	0.20	21.0	0.492	1 S	0.04		0.266	3	0.07	10
11		0.861	2	0.15		0.403	1	0.03		0.263	3	0.07	11
12		0.723	2	0.12		0.332	1	0.03		0.264	3	0.07	12
13	26.0	0.608	2 S	0.11		0.332	1	0.03		0.261	4	0.09	13
14		1.48	3	0.38		0.405	1	0.03	20.0	0.256	4 S	0.09	14
15		2.12	4	0.73		0.282	1	0.02		0.250	4	0.09	15
16		1.30	1	0.11		0.283	1	0.02		0.262	4	0.09	16
17		0.906	1	0.08	22.0	2.29	7 S	1.38		0.402	4	0.14	17
18		0.679	1	0.06		1.41	2	0.24		0.325	3	0.08	18
19		0.543	1	0.05		1.03	2	0.18		0.292	3	0.08	19
20	23.0	0.540	1 S	0.05		0.664	2	0.11		0.381	2	0.07	20
21		0.543	1	0.05		0.510	2	0.09	17.0	0.302	2 S	0.05	21
22		0.934	1	0.08		0.395	2	0.07		0.256	2	0.04	22
23		0.638	1	0.06		0.334	2	0.06		3.22	8	2.23	23
24		0.465	1	0.04	24.0	0.310	3 S	0.08		3.28	5	1.42	24
25		0.386	1	0.03		0.293	3	0.08		3.78	5	1.63	25
26		0.329	1	0.03		0.272	3	0.07		1.91	1	0.17	26
27	19.0	0.336	1 S	0.03		0.266	2	0.05		1.10	1	0.10	27
28		0.740	1	0.06		0.257	2	0.04	16.0	0.793	1 S	0.07	28
29		0.465	1	0.04		0.259	2	0.04		0.721	1	0.06	29
30		0.616	1	0.05		0.255	1	0.02		0.596	1	0.05	30
31		0.712	1	0.06	23.0	0.251	1 S	0.02					31
TOTAL		28.441		5.12		15.966		3.37		21.457		7.09	TOTAL
MEAN		0.917		0.17		0.515		0.11		0.715		0.24	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.541	1	0.05		3.85	1	0.33		2.04	1	0.18	1
2		0.483	1	0.04	7.0	3.47	1 S	0.30		2.09	1	0.18	2
3		0.546	1	0.05		2.81	1	0.24		11.1	13	12.5	3
4		0.595	2	0.10		2.26	1	0.20		17.1	20	29.5	4
5	14.0	0.473	2 S	0.08		2.00	1	0.17		7.67	4	2.65	5
6		0.428	2	0.07		1.95	1	0.17		13.8	12	14.3	6
7		1.53	5	0.66		10.3	17	15.1	8.0	11.1	4 S	3.84	7
8		2.78	5	1.20		6.63	12	6.87		8.77	2	1.52	8
9		2.75	5	1.19	7.0	4.21	7 S	2.55		6.76	1	0.58	9
10		4.15	8	2.87		3.29	3	0.85		10.4	6	5.39	10
11		2.54	3	0.66		2.81	3	0.73		7.70	2	1.33	11
12		1.89	3	0.49		3.08	2	0.53		6.19	2	1.07	12
13		1.47	2	0.25		2.43	2	0.42		4.69	2	0.81	13
14		1.13	2	0.20		2.16	2	0.37		3.79	2	0.65	14
15		0.964	2	0.17		2.08	2	0.36		4.15	2	0.72	15
16		0.875	1	0.08	6.0	2.44	2 S	0.42		24.5	26	55.0	16
17		2.27	1	0.20		3.34	3	0.87		13.0	13	14.6	17
18		1.94	1	0.17		5.05	4	1.75		7.31	4	2.53	18
19	11.0	1.78	2 S	0.31		6.30	6	3.27		5.66	3	1.47	19
20		5.63	8	3.89		4.80	2	0.83		4.44	3	1.15	20
21		2.76	2	0.48		21.2	30	55.0		3.41 B	3	0.88	21
22		2.08	2	0.36		13.8	19	22.7		3.26 B	2	0.56	22
23		1.71	2	0.30		7.79	3	2.02		4.16	2	0.72	23
24		1.75	2	0.30		5.66	1	0.49		3.20	2	0.55	24
25		1.80	2	0.31		4.39	1	0.38		2.68	2	0.46	25
26	11.0	2.04	4 S	0.71		3.79	1	0.33		2.27	2	0.39	26
27		13.2	21	24.0		3.22	1	0.28		2.08 B	2	0.36	27
28		18.2	24	37.7		2.92	1	0.25		1.94 B	2	0.34	28
29		13.7	16	18.9		2.68	1	0.23		1.78 B	2	0.31	29
30		7.23	2	1.25		2.32	1	0.20		1.67 B	2	0.29	30
31		4.79	1	0.41						1.57 B	2	0.27	31
TOTAL		104.025		97.45		143.03		118.21		200.28		155.10	TOTAL
MEAN		3.36		3.14		4.77		3.94		6.46		5.00	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUN DAILY 30 ON NOV 21
MINIMUN DAILY 1 ON MAY 01

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUN DAILY 55.0 ON NOV 21
MINIMUN DAILY 0.02 ON AUG 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 29 50 N
LONG 62 46 51 W
DRAINAGE AREA 92.2 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DG018

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.70 B	2	0.81		0.420 B	1	0.04		2.16	2	0.37	1
2		3.80 B	3	0.98		0.415 B	1	0.04		1.95	2	0.34	2
3		3.10 B	3	0.80		1.70 B	20	2.94		1.46	2	0.25	3
4		2.10 B	2	0.36		5.40 B	3	1.40		1.23	2	0.21	4
5		1.70 B	2	0.29		8.80 B	2	1.52	0.5	1.16	2 S	0.20	5
6		1.50 B	2	0.26		7.60 B	1	0.66		1.04 B	2	0.18	6
7		1.40 B	2	0.24		6.60 B	1	0.57		0.960 B	2	0.17	7
8	0.1	1.85 B	3 S	0.48		5.75 B	1	0.50		0.910 B	2	0.16	8
9		2.40 B	2	0.41		5.25 B	2	0.91		0.870 B	2	0.15	9
10		3.50 B	2	0.60		4.80 B	1	0.41		0.840 B	2	0.15	10
11	0.1	5.70 B	1 S	0.49		4.50 B	1	0.39		0.810 B	2	0.14	11
12		8.00 B	1	0.69	0.1	7.20 B	14 S	8.71	2.5	0.790 B	2 S	0.14	12
13		2.40 B	1	0.21	12.6	B	6	6.53		0.750 B	2	0.13	13
14		1.30 B	1	0.11		9.00 B	6	4.67		0.814	2	0.14	14
15		0.900 B	1	0.08		6.20 B	5	2.68		0.960	2	0.17	15
16		0.631 B	1	0.05		4.60 B	5	1.99		1.04	2	0.18	16
17		0.590 B	1	0.05		3.00 B	5	1.30	0.1	9.21	45 S	35.8	17
18		0.550 B	1	0.05		2.75 B	5	1.19		8.73 A	15	11.3	18
19		0.525 B	1	0.05	2.5	2.58 B	4 S	0.89		5.02 E	2	0.87	19
20		0.500 B	1	0.04		2.45 B	4	0.85		4.21 E	2	0.73	20
21		0.475 B	1	0.04		2.38 B	3	0.62		3.78 E	2	0.65	21
22		0.455 B	1	0.04		2.28 B	3	0.59		3.13 E	2	0.54	22
23		0.425 B	1	0.04		2.20 B	3	0.57		2.78 E	2	0.48	23
24		0.405 B	1	0.03		2.13 B	3	0.55		2.18 E	3	0.57	24
25		0.450 B	1	0.04		2.05 B	2	0.35	3.0	1.73 A	3 S	0.45	25
26		0.500 B	1	0.04	0.1	2.96	6 S	1.53		1.43	2	0.25	26
27		0.550 B	3	0.14		3.88	2	0.67		1.09	1	0.09	27
28		0.580 B	4	0.20		2.96	2	0.51		1.22	1	0.11	28
29		0.490 B	1	0.04						1.19	1	0.10	29
30		0.450 B	1	0.04						1.24	1	0.11	30
31		0.430 B	1	0.04					2.0	17.6	42 S	63.9	31
TOTAL		52.356		7.74		122.455		43.58		82.284		119.03	TOTAL
MEAN		1.69		0.25		4.37		1.56		2.65		3.84	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		11.3	5	4.88		2.92	2	0.50		1.04	1	0.09	1
2		7.01	3	1.82	7.0	2.17	1 S	0.19		0.854	1	0.07	2
3	2.5	9.33	4 S	3.22	5.5	3.59	5 S	1.55	17.0	0.712	1 S	0.06	3
4		7.67	2	1.33	5.5	5.88	3 S	1.52		0.611	1	0.05	4
5		7.94	3	2.06		4.38	2	0.76		0.616	1	0.05	5
6	5.5	10.0	5 S	4.32		3.13	2	0.54		0.495	1	0.04	6
7	6.0	8.47 A	2 S	1.46	8.5	2.94	1 S	0.25		0.446	1	0.04	7
8		5.07 A	1	0.44		2.66	1	0.23		0.459	1	0.04	8
9		3.83	1	0.33		1.99	1	0.17		1.18	2	0.20	9
10		3.97	2	0.69		1.57	1	0.14	11.5	6.27	5 S	2.71	10
11		3.28	1	0.28		1.38	2	0.24		3.21	2	0.55	11
12		2.68	1	0.23	11.5	1.26	3 S	0.33		1.95	1	0.17	12
13		2.31	1	0.20	11.5	1.21	2 S	0.21		1.58	1	0.14	13
14	6.5	1.94	1 S	0.17		1.34	1	0.12		1.64	3	0.43	14
15		2.15	2	0.37		1.14	1	0.10		1.26	2	0.22	15
16		1.91	1	0.17		0.999	1	0.09		0.930	2	0.16	16
17		1.61	1	0.14	12.5	1.84	3 S	0.48	15.5	1.03	3 S	0.27	17
18		1.83	1	0.16		1.93	3	0.50		0.885	2	0.15	18
19		2.90	3	0.75		1.40	1	0.12		0.736	2	0.13	19
20		2.29	1	0.20		1.26	1	0.11		0.622	2	0.11	20
21	4.5	2.03	1 S	0.18		1.06	1	0.09	15.5	2.47	5 S	1.07	21
22		1.65	1	0.14		0.920	1	0.08	16.0	2.43	5 S	0.42	22
23		1.90	2	0.33	8.0	4.82	5 S	2.08	18.5	2.64	3 S	0.68	23
24		2.55	2	0.44	7.0	6.67	3 S	1.73		1.71	2	0.30	24
25		2.61	2	0.45		4.10	1	0.35		1.27	1	0.11	25
26		2.18	2	0.38	10.0	2.72	1 S	0.24	13.0	3.13	3 S	0.81	26
27		1.90	1	0.16		2.06	1	0.18		3.04	1	0.26	27
28		1.70	1	0.15		1.60	1	0.14		1.86	1	0.16	28
29		1.57	1	0.14		1.25	1	0.11		1.49	1	0.13	29
30	7.0	3.94	3 S	1.02		1.13	1	0.10		1.10	1	0.10	30
31						1.06	1	0.09					31
TOTAL		119.52		26.61		72.379		13.34		47.666		9.72	TOTAL
MEAN		3.98		0.89		2.33		0.43		1.59		0.32	MEAN

NOVA SCOTIA

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DG018

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.972	1	0.08		0.416	1	0.04	14.0	0.120	1 S	0.01	1
2		0.759	1	0.07		0.322	1	0.03		0.123	1	0.01	2
3		0.594	1	0.05		0.257	1	0.02		0.122	1	0.01	3
4		0.581	1	0.05		0.173	1	0.01		0.089	1	0.01	4
5	18.0	0.873	3 S	0.23		0.188	1	0.02		0.090	1	0.01	5
6	11.0	4.10	4 S	1.42	18.0	0.366 A	1 S	0.03		0.104	1	0.01	6
7		2.06	1	0.18	14.0	0.598 A	2 S	0.10		0.077	1	0.01	7
8		1.45	1	0.13		0.519	1	0.04	15.5	0.100	1 S	0.01	8
9		1.14	1	0.10		0.406	1	0.04		0.100	1	0.01	9
10		0.849	1	0.07		0.335	1	0.03	18.5	0.108	1 S	0.01	10
11	18.5	0.774	1 S	0.07		0.271	1	0.02		0.119	1	0.01	11
12		1.05	1	0.09		0.226	1	0.02		0.115	1	0.01	12
13		0.802	1	0.07	19.0	0.217	2 S	0.04		0.116	1	0.01	13
14	16.0	2.28	3 S	0.59		0.349	2	0.06		0.086	1	0.01	14
15	15.0	1.79	2 S	0.31		0.260	1	0.02	15.0	0.061	1 S	0.01	15
16		1.33	2	0.23		0.266	1	0.02	15.0	0.107	1 S	0.01	16
17		0.967	2	0.17	17.0	4.99	4 S	1.72	13.0	0.518	2 S	0.09	17
18		0.771	1	0.07		2.92	1	0.25		0.314	1	0.03	18
19		0.641	1	0.06		1.69	1	0.15		0.222	1	0.02	19
20		0.469	1	0.04		1.15	1	0.10	14.0	0.498	6 S	0.26	20
21	17.0	0.541	2 S	0.09		0.899	1	0.08		0.326	1	0.03	21
22	16.5	1.51	2 S	0.26		0.668	1	0.06		0.233	1	0.02	22
23		0.849	1	0.07		0.525	1	0.05	12.0	2.61	4 S	0.90	23
24		0.643	1	0.06	21.0	0.487	1 S	0.04	13.0	2.06	2 S	0.36	24
25		0.491	1	0.04		0.384	1	0.03		1.47	2	0.25	25
26		0.388	1	0.03		0.279	1	0.02		1.15	1	0.10	26
27		0.333	1	0.03		0.244	1	0.02		0.884	1	0.08	27
28	16.0	0.847	2 S	0.15		0.263	1	0.02		0.712	1	0.06	28
29		0.521	1	0.05		0.271	1	0.02		0.613	1	0.05	29
30	14.0	0.556	2 S	0.10		0.218	1	0.02	9.0	0.876	1 S	0.08	30
31		0.733	1	0.06		0.159	1	0.01					31
TOTAL		31.624		5.02		20.316		3.13		18.123		2.49	TOTAL
MEAN		1.02		0.16		0.655		0.10		0.471		0.08	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	11.5	1.06	1 S	0.09		3.08	1	0.27		1.28	1	0.11	1
2		0.750	1	0.06		2.66	1	0.23		1.21	2	0.21	2
3	12.0	0.924	1 S	0.08		2.13	1	0.18	4.5	9.26	7 S	5.60	3
4		0.807	1	0.07		1.54	1	0.13	6.0	16.8	9 S	13.1	4
5		0.671	1	0.06		1.36	1	0.12		7.00	2	1.21	5
6		0.562	1	0.05		1.24	1	0.11	7.0	10.0	4 S	3.46	6
7	10.0	1.70	5 S	0.73	9.0	8.14	8 S	5.63	7.0	7.94	1 S	0.69	7
8	10.5	3.48	2 S	0.60	7.0	5.80	1 S	0.50	6.0	5.76	1 S	0.50	8
9		2.26	1	0.20		3.57	1	0.31		4.60	1	0.40	9
10		1.90	1	0.16		2.53	1	0.22	5.5	6.29	1 S	0.54	10
11		1.81	1	0.16		2.12	1	0.18		5.51	1	0.48	11
12		1.54	1	0.13	7.5	3.23	2 S	0.39		4.47	1	0.39	12
13		1.17	1	0.10		1.75	1	0.15		3.39	1	0.29	13
14		0.949	1	0.08		1.47	1	0.13		2.69	1	0.23	14
15		0.784	1	0.07		1.52	1	0.13		2.42	2	0.42	15
16	10.5	0.751	2 S	0.13	7.0	1.65	1 S	0.14	6.0	22.2	38 S	72.9	16
17	9.0	1.32	2 S	0.23	7.5	2.67	4 S	0.92	3.0	12.5	7 S	7.56	17
18		1.43	2	0.25	8.0	5.11	7 S	3.09		6.39	2	1.10	18
19		1.38	2	0.24	7.0	8.17	5 S	3.53		4.60	1	0.40	19
20	9.0	4.91	5 S	2.12		5.00	1	0.83		3.49	1	0.30	20
21		2.87	1	0.25	7.5	21.7	59 S	111		2.66	1	0.23	21
22		2.04	1	0.18	7.5	18.1	9 S	11.0		2.67	1	0.23	22
23		1.68	1	0.15		7.05	2	1.22		2.88	1	0.25	23
24	13.0	1.44	1 S	0.12		4.99	1	0.83	1.5	2.39	1 S	0.21	24
25		1.44	1	0.12		3.66	1	0.32		1.85 B	1	0.16	25
26		1.40	2	0.24		2.68	1	0.23		1.55 B	1	0.13	26
27	7.5	9.48	11 S	9.01		2.25	1	0.19		1.42 B	1	0.12	27
28	11.5	18.0	16 S	24.9		1.93	1	0.17		1.32	1	0.11	28
29	7.5	12.9	8 S	8.92		1.78	1	0.15		1.38	1	0.12	29
30		6.39	2	1.10	2.0	1.57	1 S	0.14		1.80	1	0.16	30
31		4.35	1	0.38						1.97	1	0.17	31
TOTAL		92.148		50.98		125.45		141.64		159.69		111.78	TOTAL
MEAN		2.97		1.64		4.18		4.72		5.15		3.61	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	7		MEAN	1.87	
MAXIMUM DAILY	59	ON NOV 21	MAXIMUM DAILY	111	ON NOV 21
MINIMUM DAILY	1	ON JAN 11	MINIMUM DAILY	0.01	ON AUG 04

TOTAL SUSPENDED SEDIMENT LOAD 535.06 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 15 54 N
LONG 62 56 29 W
DRAINAGE AREA 73.3 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2.15 B	91	16.9		1.30 B	38	4.27	1.0	37.5	45 S	146	1
2		2.10 B	91	16.5		1.35 B	41	4.78	1.0	33.0	33 S	94.1	2
3		2.05 B	90	15.9		1.50 B	52	6.74		24.6	27	57.4	3
4		1.95 B	90	15.2		1.75 B	69	10.4	2.0	18.6	25 S	40.2	4
5		1.80 B	89	13.8	0.1	1.82 B	69 S	10.9	2.0	15.1	35 S	45.7	5
6		1.72 B	88	13.1		1.76 B	61	9.28		12.8	50	55.3	6
7		1.62 B	88	12.3		1.70 B	56	8.23		11.5	64	63.6	7
8		1.55 B	88	11.8		1.60 B	50	6.91	4.0	10.4	78 S	70.1	8
9		1.45 B	87	10.9		1.55 B	46	6.16		10.2	92	81.1	9
10		1.38 B	87	10.4		1.50 B	44	5.70		11.5	100	99.4	10
11		1.30 B	86	9.66		3.00 B	48	12.4		13.0	102	115	11
12		1.25 B	85	9.18		7.40 B	56	35.8		13.1	101	114	12
13		1.15 B	85	8.45		7.80 B	65	43.8		13.4	97	112	13
14		1.12 B	85	8.23		8.30 B	67	48.0		12.5	93	100	14
15	0.1	1.10 B	84 S	7.98		8.00 B	59	40.8		11.2	90	87.1	15
16		1.07 B	80	7.40		7.70 B	50	33.3		10.7	87	80.4	16
17		1.04 B	74	6.65		13.0 B	53	59.5		9.40	84	68.2	17
18		1.00 B	67	5.79		32.0 B	65	180		7.96	83	57.1	18
19		0.990 B	60	5.13		70.0 B	83	502		7.12	82	50.4	19
20		0.980 B	53	4.49		125 B	118	1 270		6.52	80	45.1	20
21		0.970 B	46	3.86	0.1	170 B	113 S	1 660		6.27	79	42.8	21
22		0.960 B	39	3.23	0.1	163	111 S	1 560		6.05	82	42.9	22
23	0.1	0.950 B	34 S	2.79	0.1	182	223 S	3 510		6.71	92	53.3	23
24		0.970 B	32	2.68	0.4	223	162 S	3 120		7.95	109	74.9	24
25		0.980 B	30	2.54	1.0	157	84 S	1 140	6.5	8.95	128 S	99.0	25
26		1.00 B	29	2.51	1.0	84.2	85 S	618		9.98	149	128	26
27		1.15 B	29	2.88	1.0	41.2	51 S	182		13.5	172	201	27
28	0.1	1.30 B	30 S	3.37	1.0	31.5	41 S	112		16.7	194	280	28
29		1.60 B	39	5.39						20.3	184	323	29
30		1.55 B	44	5.89					8.0	17.7	120 S	184	30
31		1.35 B	40	4.67						18.8	166	270	31
TOTAL		41.550		249.57		1 349.93		14 200.97		423.01		3 281.1	TOTAL
MEAN		1.34		8.05		48.2		507		13.6		106	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		17.2	159	236		16.4	70	99.2		3.10	102	27.3	1
2	13.0	14.5	141 S	177		12.6	82	89.3	18.0	2.65	90 S	20.6	2
3		11.9	132	136	11.5	9.91	100 S	85.6		2.36	96	19.6	3
4		10.0	125	108		7.98	108	74.5		2.24	110	21.3	4
5		8.58	117	86.7		6.80	107	62.9		1.83	124	19.6	5
6		7.41	109	69.8		6.01	105	54.5	19.0	1.61	136 S	18.9	6
7	12.0	6.34	102 S	55.9		5.33	104	47.9		1.43	133	16.4	7
8		5.57	100	48.1	12.5	4.73	102 S	41.7		1.29	123	13.7	8
9		5.10	106	46.7		4.25	98	36.0		1.47	129 S	16.4	9
10		4.75	109	44.7		4.12	94	33.5		1.50	128	16.6	10
11	11.0	4.54	103 S	40.4		6.05	117	61.2		1.58	133	18.2	11
12		4.88	101	42.6		24.2	122	255		1.42	124	15.2	12
13		4.70	91	37.0	12.0	33.6	66 S	192		1.22	122	12.9	13
14		9.41	90	73.2		26.0	64	148		1.22	137	14.4	14
15	10.0	17.8	103 S	158	12.0	18.1	99 S	155	20.0	1.31	158 S	17.9	15
16		15.7	95	129		14.1	116	141		1.28	141	15.6	16
17	15.0	14.4	95 S	118		11.7	117	118		1.18	118	12.0	17
18		16.0	115	159		9.87	113	96.4		1.12	98	9.48	18
19	13.0	13.8	113 S	135		8.31	109	78.3		1.01	83	7.24	19
20		11.6	107	107		7.09	107	65.5		0.968	73	6.11	20
21		9.58	103	85.3		6.06	104	54.5		1.91	155	25.6	21
22		8.03	100	69.4		5.28	100 S	45.6		5.89	256	130	22
23	10.5	10.1	123 S	107		4.63	95	38.0	11.9		322	331	23
24		13.5	161	188		4.11	91	32.3	10.8		185	173	24
25		13.1	131	148		3.76	89	28.9	19.0	7.88	147 S	100	25
26	10.0	10.2	77 S	67.9		3.58	92	28.5		5.88	120	61.0	26
27		8.34	65	46.8	21.0	3.63	108 S	33.9		4.06	100	35.1	27
28	10.5	13.4	142 S	164		3.88	126	42.2		2.84	92	22.6	28
29	9.8	35.1	243 S	737		3.79	117	38.3		2.14	87	16.1	29
30	11.0	22.7	73 S	143		3.34	103	29.7	25.0	1.73	82 S	12.3	30
31						3.29	108	30.7					31
TOTAL		348.23		3 768.5		282.50		2 334.1		86.818		1 226.13	TOTAL
MEAN		11.6		125		9.11		75.3		2.89		40.9	MEAN

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.71	99	14.6		0.750	39	2.53		28.7 E	443	1 100	1
2	24.0	1.48	87 S	11.1		0.634	39	2.14	23.0	70.5	690 S	4 200	2
3		1.25	75	8.10		0.589	43	2.19	22.0	47.6	145 S	596	3
4		1.12	70	6.77		0.713	73	4.50	22.0	45.0	144 S	560	4
5		1.09	72	6.78	25.0	1.07	144 S	13.3	20.0	60.3	73 S	380	5
6	22.0	1.02	66 S	5.82		0.911	94	7.40	20.0	27.9	56 S	135	6
7		0.982	64	5.21		0.606	64	3.35	20.0	20.3	60 S	105	7
8		0.961	66	5.48		0.534	57	2.63	20.0	14.3	91 S	112	8
9		0.853	69	5.09		0.802	110	7.62		9.76	137	116	9
10		0.728	72	4.53		0.776	101	6.77	20.0	7.01	115 S	69.7	10
11		0.647	75	4.19		0.567	84	4.12		5.35	98	45.3	11
12	23.0	0.608	79 S	4.15		0.491	96	4.07		4.41	87	33.1	12
13		0.593	77	3.95	25.3	0.471	122 S	4.96		3.69	78	24.9	13
14		0.542	76	3.56		0.439	110	4.17		3.39	75	22.0	14
15		0.507	74	3.24		0.444	102	3.91		3.84	81	26.9	15
16		0.489	72	3.04		0.508	100	4.39		2.99	70	18.1	16
17		0.490	72	3.05		0.525	98	4.45	18.0	2.71	69 S	16.2	17
18		0.580	93	4.66		0.524	94 S	4.26		5.19	88	39.5	18
19		0.930	140	11.2		0.593	92	4.71		5.04	74	32.2	19
20		0.759	112	7.34		0.526	91	4.14		4.22	69	25.2	20
21	25.0	0.586	110 S	5.57		0.485	89	3.42		4.47	85	32.8	21
22		0.536	96	4.45		0.374	88	2.84		21.0	142	258	22
23		0.478	81	3.35		0.352	86	2.62		21.7	100	187	23
24		0.441	68	2.59	18.0	0.346	85 S	2.54	13.5	11.6	64 S	64.1	24
25		0.432	59	2.20		0.339	85	2.49		8.02	56	38.8	25
26		0.415	52	1.86		0.340	84	2.47		6.40	70	38.7	26
27		0.404	45	1.57		0.339	83	2.43	16.0	5.61	100 S	48.5	27
28		0.533	42	1.93		0.479	92	3.81		6.34	124	67.9	28
29	24.0	0.988	59 S	5.04	25.0	3.27 E	189 S	53.4		6.29	114	62.0	29
30		0.930	42	3.37		2.57 E	135	30.0		5.35	99	45.8	30
31		0.778	40	2.69		13.2 E	308	351					31
TOTAL		23.820		156.48		34.527		552.63		468.98		8 500.7	TOTAL
MEAN		0.768		5.05		1.11		17.8		15.6		283	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		16.3	149	210		16.0	19	26.3	2.0	11.7	15 S	15.2	1
2	12.0	42.3	138 S	504		12.6	18	19.6		16.0	32	44.2	2
3	11.5	28.5	79 S	195		10.5	18	16.3		16.9	18	26.3	3
4	10.5	20.1	66 S	115		8.92	17	13.1		15.6	16	21.6	4
5		15.9	85	117		7.88	17	11.6	1.0	13.8	16 S	19.1	5
6	9.5	21.3	248 S	456		9.68	87	72.8		11.7	16	16.2	6
7	9.0	27.0	152 S	355		25.2	131 S	285		10.3	16	14.2	7
8		28.7	170	422		16.6	75	108		12.4	48	51.4	8
9		24.1	103	214		13.1	49	55.5		16.1	41	57.0	9
10		18.9	82	134		10.7	43	39.8		14.7 B	23	29.2	10
11		18.7	74 S	94.0		8.83	41	31.3		12.6 B	21	22.9	11
12		11.3	72	70.3		7.63	39	25.7	0.1	10.4 B	20 S	18.0	12
13		8.90	70	53.8		6.64	37	21.2		8.50 B	19	14.0	13
14		7.33	68	43.1	8.0	5.93	35 S	17.9		7.62	18	11.9	14
15	11.0	6.31	68 S	37.1		5.47	32	15.1	0.1	7.00	17 S	10.3	15
16		5.64	65	31.7		5.15	28	12.5		6.65	17	9.77	16
17		5.12	59	26.1		4.92	25	10.6		6.21	16	8.58	17
18		6.39	66	36.4		4.68	22	8.90		5.00 B	17	7.34	18
19		12.9	85	94.7	7.0	4.50	19 S	7.39		4.50 B	17	6.61	19
20	8.0	17.8	57 S	87.7		6.51	94	52.9		4.10 B	17	6.02	20
21		14.5	42	52.6		21.9	115	218		3.90 B	17	5.73	21
22	6.0	23.3	81 S	163		23.1	34	67.9		3.90 B	21	7.08	22
23		53.6	130	602		19.8	18	30.8		4.30 B	35	13.0	23
24		38.5	38	126	3.0	16.1	13 S	18.1		5.10 B	53	23.4	24
25	9.0	25.3	20 S	43.7		12.6	11	12.0		6.50 B	57	32.0	25
26		20.8	18	32.3		10.3	13	11.6		5.60 B	50	24.2	26
27		20.5	37	65.5		15.1	40	52.2		5.00 B	43	18.6	27
28		44.7	105	406		17.1	26	38.4		4.60 B	32	12.7	28
29	8.5	40.9	53 S	187		15.8	18	24.6		4.20 B	19	6.89	29
30		30.0	27	70.0		13.8	15	17.9	0.1	4.00 B	11 S	3.80	30
31		21.8	20	37.7						3.90 B	10	3.37	31
TOTAL		673.39		5 082.7		357.04		1 342.99		262.78		560.59	TOTAL
MEAN		21.7		164		11.9		44.8		8.48		18.1	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 81 252.46 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	110		MEAN	113	
MAXIMUM DAILY	690	ON SEP 02	MAXIMUM DAILY	4 200	ON SEP 02
MINIMUM DAILY	10	ON DEC 31	MINIMUM DAILY	1.57	ON JUL 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 04 20 N
, LONG 81 39 35 W
DRAINAGE AREA 865 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
SEP 02	10:20	70.5	H	23.0	1 040	K	37	47	73	95	98	99	100					BNW
SEP 02	17:00	70.5	H	23.0	561	K	53	62	85	94	98	99	100					BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.05 B	27	9.45		3.85 B	49	16.3		15.6	131	177	1
2		3.95 B	29	9.90		4.60 B	93	37.0	4.0	14.1	117 S	143	2
3		3.80 B	27	8.86		4.40 B	47	17.9		13.1	107	121	3
4		3.75 B	24	7.78		4.15 B	25	8.96	1.5	12.0	99 S	103	4
5	0.1	3.70 B	28 S	8.95		4.00 B	19	6.57		11.0	96	91.2	5
6	0.1	3.77 B	15 S	4.89	0.1	3.82 B	33 S	10.9	3.5	10.3	116 S	103	6
7		3.76 B	13	4.22		3.70 B	41	13.1		9.61	104	86.4	7
8		3.75 B	13	4.21		3.65 B	39	12.3		9.08	83	65.1	8
9		3.72 B	12	3.86	0.1	3.55 B	37 S	11.3	4.5	8.76	72 S	54.5	9
10	0.1	3.70 B	12 S	3.84		3.50 B	46	13.9	4.5	8.59	73 S	54.2	10
11		3.69 B	14	4.46		4.50 B	366	142		8.55	73	53.9	11
12		3.65 B	15	4.73		8.00 B	438	303	4.0	8.42	74 S	53.8	12
13	0.1	3.62 B	13 S	4.07		7.30 B	335	211		8.20	75	53.1	13
14		3.61 B	15	4.68	0.1	6.80 B	269 S	158	3.0	8.03	71 S	49.3	14
15		3.60 B	13	4.04		6.40 B	227	126		7.75	65	43.5	15
16		3.58 B	17	5.26		6.80 B	221	130	3.0	7.59	55 S	36.1	16
17	0.1	3.56 B	18 S	5.54		15.0 B	523	678		7.42	53	34.0	17
18		3.53 B	16	4.88		20.0 B	674	1 160		7.18	52	32.3	18
19		3.52 B	15	4.56	0.5	23.0 B	468 S	930	3.0	6.95	48 S	28.8	19
20		3.50 B	15	4.54		28.0 B	353	854		6.78	48	28.1	20
21		3.50 B	15	4.54	2.0	32.0 B	299 S	827		6.68	49	28.3	21
22	0.1	3.50 B	17 S	5.14		33.4	240	693		6.64	51	29.3	22
23		3.50 B	43	13.0	4.0	30.5	195 S	514	4.5	6.62	52 S	29.7	23
24	0.1	3.49 B	54 S	16.3	4.0	30.2	167 S	436		6.61	48	27.4	24
25		3.49 B	44	13.3		28.4	154	378	5.5	6.58	44 S	25.0	25
26		3.56 B	43	13.2	3.0	26.8	156 S	361		6.55	51	28.9	26
27		3.70 B	86	27.5	4.0	21.5	143 S	266	6.0	6.55	74 S	41.9	27
28		3.57 B	38	11.7	4.5	16.6	135 S	194		6.60	79	45.0	28
29	0.1	3.52 B	14 S	4.26						6.63	83	47.5	29
30		3.50 B	27	8.16					9.5	6.64	83 S	47.6	30
31	0.1	3.55 B	39 S	12.0						6.70	81	46.9	31
TOTAL		112.69		241.82		384.42		8 509.23		261.81		1 808.8	TOTAL
MEAN		3.64		7.80		13.7		304		8.45		58.3	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		6.77	102	59.7		9.53	68	56.0	14.5	4.75	73 S	30.0	1
2	12.0	6.80	200 S	118	11.0	9.05	59 S	46.1		4.50	66	25.7	2
3		6.82	148	87.2		8.39	52	37.7	18.0	4.73	107 S	43.7	3
4	12.5	6.83	45 S	26.6	12.0	7.73	46 S	30.7		5.26	164	74.5	4
5		6.83	33	19.5		7.21	47	29.3		4.84	107	44.7	5
6		6.81	34	20.0	13.0	6.88	44 S	26.2	19.0	4.58	77 S	30.5	6
7	8.5	6.34	29 S	15.9		6.53	40	22.6		4.33	69	25.8	7
8		6.12	28	14.8	10.5	6.32	39 S	21.3	17.0	4.17	66 S	23.8	8
9	11.0	6.06	30 S	15.7		6.21	32	17.2		4.21	88	32.0	9
10		6.05	32	16.7		6.27	30	16.3		4.27	72	26.6	10
11		5.89	31	15.8	13.0	7.04	46 S	28.0	17.5	4.16	56 S	20.1	11
12		5.92	27	13.8		7.26	71	44.5		4.02	50	17.4	12
13	9.5	5.94	22 S	11.3	11.5	6.89	51 S	30.4	18.0	3.92	58 S	19.6	13
14		6.66 E	23	13.2		6.70	49	28.4		4.25	82	30.1	14
15	9.5	8.30	63 S	45.2		6.94	70	42.0	19.0	4.40	72 S	27.4	15
16		7.76	47	31.5		7.39	69	44.1	22.0	4.20	63 S	22.9	16
17		7.94	46	31.6		6.82	40	23.6		3.93	72	24.4	17
18	10.0	9.52	96 S	79.0		6.42	41	22.7	18.0	3.83	85 S	28.1	18
19		9.59	77	63.8	12.0	6.26	46 S	24.9		3.72	89	28.6	19
20		8.51	51	37.5		6.06	44	23.0	17.5	3.68	90 S	28.6	20
21	9.0	7.90	43 S	29.4	15.0	5.77	42 S	20.9		4.42	198	75.6	21
22		7.41	37	23.7		5.52	43	20.5	18.0	7.21	764 S	476	22
23	10.0	8.63	75 S	55.9	17.5	5.31	47 S	21.6		7.90	435	297	23
24	9.5	9.77	89 S	75.1		5.15	49	21.8	17.0	6.29	137 S	74.5	24
25		9.77	85	71.8	16.5	5.05	46 S	20.1	19.0	7.24	461 S	288	25
26		9.30	75	60.3		4.98	42	18.1		7.23	346	216	26
27	10.0	9.36	71 S	57.0		4.88	40	16.9	18.0	6.12	140 S	74.0	27
28	9.4	10.0	92 S	79.5	17.4	5.41	72 S	33.7		5.40	110	51.3	28
29		11.9	150	158		5.41	92	43.0	18.0	4.88	137 S	57.8	29
30	11.5	10.6	92 S	84.3		5.22	96	43.3		4.68	188	76.0	30
31						5.09	103	45.3					31
TOTAL		236.04		1 427.8		199.69		920.2		147.12		2 290.7	TOTAL
MEAN		7.87		47.6		6.44		29.7		4.90		76.4	MEAN

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		5.63	365	178		3.45	28	8.35		3.25	28	7.86	1
2		4.77	186	76.7		3.34	23	6.64		7.78	249	167	2
3		4.41	131	49.9		3.58	55	17.0	19.5	12.1	267 S	279	3
4	20.0	4.19	113 S	40.9	18.0	3.78	66 S	21.6		10.7	167	154	4
5		4.93	264	112	19.0	4.06	146 S	51.2	19.5	10.9	166 S	156	5
6	20.0	4.41	153 S	58.3		3.60	41	12.8		12.1	196	205	6
7		3.91	100	33.8		3.34	33	9.52		14.5	204	256	7
8	21.5	3.72	89 S	28.6	18.5	3.35	33 S	9.55	20.5	11.9	134 S	138	8
9		3.53	64	19.5		3.50	36	10.9		9.07	119	93.3	9
10	19.5	3.82	82 S	27.1	18.5	3.37	27 S	7.86	17.0	7.31	95 S	60.0	10
11		3.37	68	19.8	21.0	3.72	30 S	9.64	17.0	6.43	76 S	42.2	11
12		3.07	69	18.3		4.29	49	18.2	18.0	6.15	63 S	33.5	12
13	20.0	2.94	69 S	17.5	19.5	4.22	38 S	13.9		5.74	58	28.8	13
14		2.66	64	14.7	19.5	4.29	42 S	15.6	18.0	5.52	65 S	31.0	14
15	19.0	2.16	58 S	10.8	19.0	4.53	51 S	20.0		5.41	63	29.4	15
16		1.77	55	8.41		4.93	80	34.1		5.09	50	22.0	16
17		1.57	51	6.92	17.5	4.47	39 S	15.1		6.12	101	53.4	17
18	20.0	1.48	39 S	4.99		4.02	30	10.4	13.5	7.07	92 S	56.2	18
19		1.47	29	3.68		3.77	29	9.45	12.5	6.26	51 S	27.6	19
20	21.5	1.80	32 S	4.98	17.0	3.70	29 S	9.27		5.95	43	22.1	20
21		2.65	72	16.5		3.55	28	8.59	11.5	5.63	46 S	22.4	21
22	18.0	2.31	36 S	7.19	18.5	3.34	28 S	8.08		7.84	149	101	22
23		2.12	27	4.95		3.19	28	7.72	11.5	7.28	70 S	44.0	23
24		2.19	28	5.30	18.5	3.07	27 S	7.16		6.63	33	18.9	24
25	18.5	2.28	27 S	5.32		2.98	23	5.92		6.60	38	21.7	25
26		2.44	44	9.28									
27	18.5	2.60	40 S	8.99	17.5	2.90	25	6.26	12.5	7.06	60 S	36.6	26
28	18.0	3.50	111 S	33.6		2.89	26 S	6.49		6.69	53	30.6	27
29		5.83	197	99.2	18.5	2.99	25	6.46	12.5	6.27	44 S	23.8	28
30	17.0	3.92	68 S	23.0		3.09	23 S	6.14		5.98	38	19.6	29
31		3.48	34	10.2	18.5	3.04	25	6.57		5.75	32	15.9	30
						3.77	91 S	29.6					31
TOTAL		98.93		958.41		112.12		410.07		225.08		2 196.86	TOTAL
MEAN		3.19		30.9		3.62		13.2		7.50		73.2	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.5	8.29	177 S	127		9.68	45	37.6		6.65	21	12.1	1
2	9.5	8.84	178 S	136	9.0	8.74	41 S	31.0		7.12	22	13.5	2
3		7.47	103	66.5		8.09	39	27.3	4.5	7.15	18 S	11.1	3
4		6.77	53	31.0		7.58	35	22.9		6.91	17	10.1	4
5	10.5	6.76	42 S	24.5	7.5	7.26	29 S	18.2	4.5	6.75	16 S	9.33	5
6		6.94	48	28.8		7.13	24	14.8		6.70	14	8.10	6
7		6.76	33	19.3	7.0	7.10	23 S	14.1	3.5	6.63	11 S	6.30	7
8	10.0	6.43	25 S	13.9		6.89	20	11.9		6.50	12	6.74	8
9		6.25	24	13.0	6.5	6.65	16 S	9.19		6.37	12	6.60	9
10	9.5	6.16	22 S	11.7		6.45	12	6.69	1.7	6.18	7 S	3.74	10
11		6.11	20	10.6		6.35	13	7.13		5.75	9	4.47	11
12		6.01	18	9.35		6.27	13	7.04	0.5	6.04	16 S	8.35	12
13	9.0	5.85	16 S	8.09	5.0	6.19	14 S	7.49		5.83	13	6.55	13
14		5.69	14	6.88		6.10	14	7.38	2.0	5.78	13 S	6.49	14
15		5.64	17	8.28		6.00	15	7.78		5.74	14	6.94	15
16	10.0	5.58	21 S	10.1	5.5	5.93	15 S	7.69		5.66	16	7.82	16
17		5.51	22	10.5		5.90	15	7.65		5.57	15	7.22	17
18		5.87	22	11.2		5.83	15	7.56		5.40 B	15	7.00	18
19	8.5	6.55	25 S	14.1	6.5	5.77	15 S	7.48	0.5	5.10 B	20 S	8.81	19
20		6.58	21	11.9		6.39	23	12.7		5.00 B	32	13.8	20
21	9.5	6.61	19 S	10.9	5.5	7.60	16 S	10.5		4.95 B	27	11.5	21
22		7.71	32	21.3		7.47	11	7.10		5.05 B	30	13.1	22
23	8.0	8.88	44 S	33.8	4.5	7.28	19 S	12.0	1.5	6.80	58 S	34.1	23
24		9.25	49	39.2		7.56	29	18.9		6.53	56	31.6	24
25		9.28	46	36.9		7.56	25	16.3		6.05	27	14.1	25
26	7.0	11.0	71 S	67.5	4.0	7.07	20 S	12.2		5.77	17	8.47	26
27		11.1	53	50.8		6.86	20	11.9		5.70	17	8.37	27
28	10.0	11.6	58 S	58.1	4.0	6.74	19 S	11.1		5.70	18	8.86	28
29		10.9	38	35.8		6.62	17	9.72	1.5	5.60	17 S	8.23	29
30		10.1	35	30.5	4.0	6.51	17 S	9.56		5.42	16	7.49	30
31	9.5	10.5	47 S	42.6					2.0	5.33	18 S	8.29	31
TOTAL		237.00		1 000.10		207.57		392.86		185.73		319.17	TOTAL
MEAN		7.65		32.3		6.92		13.1		5.99		10.3	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	98	
MAXIMUM DAILY	764	ON JUN 22
MINIMUM DAILY	7	ON DEC 10

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	56.1	
MAXIMUM DAILY	1 160	ON FEB 18
MINIMUM DAILY	3.68	ON JUL 19

TOTAL SUSPENDED SEDIMENT LOAD 20 476.02 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 42 41 05 N
LONG 80 32 15 W
DRAINAGE AREA 591 km^2
REGULATED FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
FEB 19	11:40	25.3 H	0.1	449 K	4	4	11	21	41	70	89	99	100			BNW
JUN 22	08:00	7.21H	18.0	652 K	9	17	35	65	84	94	98	99	100			BNW
JUN 25	11:30	7.24H	19.0	428 K	14	21	33	64	83	94	98	99	100			BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.35 B	85	31.9		3.45 B	36	10.7		34.9	744	2 240	1
2		4.25 B	86	31.6		3.60 B	34	10.6	2.0	23.7	561 S	1 150	2
3		4.22 B	83	30.3		3.85 B	37	12.3	1.0	17.1	426 S	629	3
4		4.16 B	87	31.3		4.20 B	53	19.2	1.0	13.5	405 S	476	4
5	0.1	4.11 B	86 S	30.5		4.60 B	102	40.5		11.5	392	389	5
6		4.06 B	79	27.7		4.25 B	75	27.5	2.0	10.4	283 S	254	6
7		4.03 B	67	23.3		4.05 B	48	16.8		9.39	227	184	7
8		4.00 B	51	17.6		3.90 B	43	14.5		8.60	194	144	8
9		3.95 B	42	14.3		3.80 B	38	12.5	4.0	8.20	174 S	123	9
10		3.90 B	36	12.1	0.1	3.70 B	37 S	11.8		8.21	167	118	10
11		3.87 B	34	11.4		5.20 B	59	26.5	3.0	8.42	158 S	115	11
12		3.85 B	33	11.0		8.80 B	109	82.9		8.39	145	105	12
13		3.82 B	32	10.6		12.5 B	195	211		8.13	136	95.5	13
14		3.78 B	36	11.8		16.0 B	194	268		7.74	130	86.9	14
15		3.75 B	38	12.3		13.0 B	128	144		7.17	125	77.4	15
16		3.70 B	38	12.1		16.0 B	90	124	3.0	6.77	119 S	69.6	16
17		3.68 B	34	10.8		22.0 B	79	150		6.32	117	63.9	17
18		3.63 B	34	10.7		32.0 B	218	603		5.94	116	59.5	18
19		3.60 B	31	9.64	0.1	46.0 B	680 S	2 700		5.62	119	57.8	19
20		3.58 B	34	10.5		58.0 B	864	4 330		5.41	118	55.2	20
21		3.56 B	35	10.8		54.0 B	561	2 620	3.0	5.23 A	114 S	51.5	21
22		3.53 B	30	9.15		50.0 B	427	1 840		5.13 E	102	45.2	22
23		3.50 B	31	9.37		68.0 B	750	4 410		5.14 E	88	39.1	23
24		3.48 B	33	9.92	0.3	76.3 E	1 230 S	8 110		5.19 E	79	35.4	24
25		3.45 B	34	10.1	2.0	60.6 E	754 S	3 950	5.0	5.32 A	75 S	34.5	25
26		3.53 B	48	14.6		56.0	624	3 020		5.69 E	85	41.8	26
27		4.00 B	82	28.3	3.0	49.0	679 S	2 870		6.37 E	120	66.0	27
28		3.80 B	65	21.3		41.3	838	2 990	5.0	6.66 A	143 S	82.3	28
29		3.55 B	46	14.1						6.82	140	82.5	29
30		3.45 B	42	12.5						7.34	191	121	30
31		3.40 B	41	12.0						9.20	393	312	31
TOTAL		117.54		513.58		724.10		35 625.8		283.50		7 404.1	TOTAL
MEAN		3.79		16.6		25.9		1 380		9.15		239	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		10.0	352	304		15.7	412	559		3.86	75	25.0	1
2		8.70	245	184	13.0	11.5	313 S	311	19.0	3.69	70 S	22.3	2
3	11.0	7.27	175 S	110		8.87	244	187		3.92	118	40.0	3
4		6.37	136	74.9		7.47	204	132		5.53	276	132	4
5		5.92	106	54.2		6.69	180	104		4.27	102	37.6	5
6		5.52	86	41.0	8.0	6.25	169 S	91.3		3.94	75	25.5	6
7	9.0	5.17	72 S	32.2		5.78	162	80.9		3.64	71	22.3	7
8		4.91	65	27.6		5.43	152	71.3		3.48	69	20.7	8
9		4.78	60	24.8		5.18	146	65.3		3.54	68	20.8	9
10		4.65	64	25.7		5.11	145	64.0		3.61	65	20.3	10
11		4.67	87	35.1		5.41 E	189	88.3		3.53	68	20.7	11
12		4.78	81	33.5		7.49 E	415	269		3.38	80	23.4	12
13	9.0	4.88	61 S	25.7		7.33	259	164		3.27	85	24.0	13
14		10.3	564	502		6.52	202	114		3.67	96	30.4	14
15		16.0	741	1 020		6.25	198	107		3.77	103	33.5	15
16		13.8	406	484		6.28	221	120	24.0	3.49	81 S	24.4	16
17		10.7	198	183		5.97	199	103	24.0	3.28	77 S	21.8	17
18		14.0	563	681		5.55	167	80.1		3.12	79	21.3	18
19		22.1	684	1 310		5.15	140	62.3		2.99	87	22.5	19
20		14.5	363	455		4.86	134	56.3	20.0	2.92	127 S	32.0	20
21	9.0	10.3	214 S	190		4.52	138	53.9		3.54	266	81.4	21
22		8.14	121	85.1		4.30	113	42.0		12.2	1 030	1 090	22
23		13.0	302	339	19.0	4.17	93 S	33.5		13.4	787	911	23
24		19.8	1 070	1 830		4.02	89	30.9		7.49	421	272	24
25		22.9	614	1 210		4.08	85	30.0		9.38	796	645	25
26		17.7	254	388		4.02	88	30.6		5.85	477	241	26
27		12.7	103	113		3.95	85	29.0		4.60	312	124	27
28	11.0	15.0	463 S	600		4.19	110	39.8		4.03	212	73.8	28
29	11.0	25.2	972 S	2 120		4.17	111	40.0	23.0	3.67	177 S	56.1	29
30		21.6	578	1 080		4.09	92	32.5		3.49	180	54.3	30
31						4.11	80	28.4					31
TOTAL		345.36		13 562.8		184.41		3 220.4		140.55		4 169.1	TOTAL
MEAN		11.5		452		5.95		104		4.69		139	MEAN

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		3.82	252	83.2		2.81	151	36.7		5.98 E	547	283	1
2		4.05 E	259	90.6		2.64	163	37.2		9.86 E	391	320	2
3		3.84 E	228	75.6	23.0	2.94	589 S	150		7.39 E	198	126	3
4		3.67 E	210	66.6		3.03	270	70.7		13.0 E	1 090	1 220	4
5		3.59 E	198	61.4	23.0	3.17	271 S	74.2		20.7 E	1 150	2 060	5
6	23.0	3.44 A	189 S	56.2		3.02	201	52.4		23.1 E	928	1 850	6
7		3.30 E	185	52.7		2.78	166	39.9		16.2 E	605	847	7
8		3.08 E	183	48.7		3.07	213	56.5		10.3 E	425	378	8
9		2.90 E	171	42.8		3.07	182	48.3	17.0	6.25 A	291 S	157	9
10		2.78 E	166	39.9	22.0	2.80	163 S	39.4		5.57 E	210	101	10
11	23.0	2.69 A	159 S	37.0		12.6	954	1 040	19.0	5.02 A	172 S	74.6	11
12		2.60 E	157	35.3		8.90	513	394		4.62	146	58.3	12
13		2.50 E	153	33.0		5.34	267	123		4.19	128	46.3	13
14		2.47 E	148	31.6		11.3	688	672		4.00	112	38.7	14
15		2.44 E	142	29.9		5.72	383	189	18.0	3.76	97 S	31.5	15
16		2.39 E	131	27.1		5.48	341	161		3.55	95	29.1	16
17		2.39 E	121	25.0	19.0	4.22	224 S	81.7		4.15	152	54.5	17
18		2.38 E	113	23.2		3.66	201	63.6		5.70	368	181	18
19		2.39 E	111	22.9		3.42	191	56.4		5.12	234	104	19
20	22.0	2.41 A	106 S	22.1		3.18	182	50.0		4.79	174	72.0	20
21		2.38	131	26.9		3.03	177	46.3		4.51	248	96.6	21
22		2.21	100	19.1		2.93	182	46.1	15.0	11.2	1 140 S	1 100	22
23		2.12	71	13.0		2.84	193	47.4		8.85	463	354	23
24		2.05	57	10.1	20.0	2.81	243 S	59.0		7.99	316	218	24
25	23.0	1.91	52 S	8.58		2.75	290	68.9		6.30	176	95.8	25
26		1.98	77	13.2		2.61	242	54.6		5.54	118	56.5	26
27		2.31	102	20.4		2.66	226	51.9		5.11	108	47.7	27
28		4.87	495	208		2.74	233	55.2		4.61	103	41.0	28
29		4.88	371	156		2.87	245	60.8		4.32	77	28.7	29
30		3.56	232	71.4		3.00	272	70.5		4.10	98	34.7	30
31		3.12	174	46.9		3.42 E	300	88.6					31
TOTAL		90.52		1 498.38		124.81		4 085.3		225.38		10 105.0	TOTAL
MEAN		2.92		48.3		4.03		132		7.51		337	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	19.2	1 330 S	2 210		10.1	178	155		6.77	92	53.8	1
2		18.6	1 090	1 750		8.73	159	120		8.60	378	281	2
3		13.5	408	476		7.87	136	92.5		9.39	309	251	3
4		9.50	154	126		7.09	106	64.9		8.95	192	148	4
5		7.09	104	63.7		6.60	93	53.0		7.64	122	80.5	5
6		6.30	97	52.8		6.62	324	185		6.78	71	41.6	6
7		6.07	88	46.2		6.87	570	338		6.30	46	25.0	7
8		6.11	101	53.3		6.38	451	249		6.17	44	23.5	8
9		5.90	70	35.7	6.0	5.99	390 S	202		5.91	43	22.0	9
10		5.56	48	23.1		5.64	328	160	1.0	5.46	46 S	21.7	10
11		5.17	40	17.9		5.48	270	128		5.38	60	27.7	11
12		4.86	40	16.8		5.20	228	104		5.53	72	38.4	12
13	8.0	4.70	41 S	16.6		5.15	198	88.1		4.93	73	31.1	13
14		4.49	23	8.92		5.04	157	68.4	2.0	4.63	69 S	27.6	14
15		4.43	31	11.9		4.96	118	50.6		4.64	71	28.5	15
16		4.36	31	11.7		4.94	132	56.3		4.64	63	25.3	16
17		4.20	25	9.07		4.98	165	71.0		4.59	58	23.0	17
18		13.0	1 040	170	4.5	4.88	123 S	51.9		4.26	63	23.2	18
19		19.1	534	881		4.83	122	50.9		4.20 B	58	21.0	19
20		16.1	260	362		7.50	225	146		4.20 B	64	23.2	20
21		12.3	163	173		14.1	881	1 070		4.20 B	81	29.4	21
22		13.3	194	223		14.3	407	503		4.27 B	115	42.4	22
23		27.7	1 750	4 190		11.3	199	194		5.40 B	277	129	23
24		29.4	2 220	5 640		8.77	109	82.6		7.60 B	229	150	24
25	11.0	20.9	725 S	1 310		7.34	73	46.3		7.00 B	133	80.4	25
26		14.8	317	405		6.60	57	32.5		6.60 B	92	52.5	26
27		14.9	358	461		6.68	67	38.7		6.00 B	76	39.4	27
28		24.1	1 380	2 870		6.96	117	70.4		5.70 B	72	35.5	28
29		23.4	680	1 370		7.26	145	91.0		5.50 B	68	32.3	29
30		17.0	187	275	3.0	6.78	90 S	52.7		5.30 B	70	32.1	30
31		12.4	176	189						5.20 B	118	53.0	31
TOTAL		388.44		24 448.69		215.04		4 615.8		181.70		1 889.1	TOTAL
MEAN		12.5		789		7.17		154		5.86		60.9	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 114 138.05 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	437		MEAN	313	
MAXIMUM DAILY	2 220	ON OCT 24	MAXIMUM DAILY	8 110	ON FEB 24
MINIMUM DAILY	23	ON OCT 14	MINIMUM DAILY	8.58	ON JUL 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 42 42 30 N
LONG 80 50 20 W
DRAINAGE AREA 676 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
FEB 24	15:45	76.1 H	0.3	1 120 K	13	19	28	34	43	58	77	91	96	99		BMW
APR 28	19:45	15.4 H	11.0	775 K	21	25	39	51	55	64	83	95	98	100		BMW
AUG 03	16:35	2.94H	23.0	1 520 K	13	22	38	71	88	95	99	100				BMW
OCT 01	16:20	19.2 H	10.0	2 120 K	14	20	29	41	56	74	89	96	98	99		BMW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA036

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.028 B	144	0.35		0.035 B	18	0.05		0.559	52	2.51	1
2		0.027 B	142	0.33		0.031 B	17	0.05		0.339	38 S	1.11	2
3		0.026 B	142	0.32		0.029 B	16	0.04		0.190 B	36	0.59	3
4		0.025 B	140	0.30		0.027 B	17	0.04		0.148 B	38	0.49	4
5		0.024 B	139	0.29		0.026 B	15	0.03		0.124 B	38	0.41	5
6	0.1	0.024 B	138 S	0.29		0.025 B	15	0.03		0.108 B	39	0.36	6
7		0.024 B	135	0.28		0.024 B	14	0.03		0.095 B	41	0.38	7
8		0.023 B	131	0.26		0.023 B	14	0.03		0.103	45	0.40	8
9		0.023 B	127	0.25		0.022 B	14	0.03		0.123	50	0.53	9
10		0.023 B	119	0.24		0.021 B	13	0.02		0.135	53 S	0.62	10
11		0.023 B	111	0.22		0.035 B	35	0.11		0.117	54	0.55	11
12		0.023 B	88	0.17		0.110 B	63	0.60		0.093 B	53	0.43	12
13		0.023 B	46	0.09		0.103 B	48	0.43		0.085 B	52	0.38	13
14		0.023 B	34	0.07		0.098 B	15	0.13		0.081 B	50	0.35	14
15		0.022 B	29	0.06		0.095 B	8	0.07		0.077 B	51	0.34	15
16		0.023 B	25	0.05		0.093 B	9	0.07		0.086 B	51	0.38	16
17		0.023 B	24	0.05	0.5	0.124 B	11 S	0.12		0.069 B	52	0.31	17
18		0.022 B	23	0.04		0.600 B	89 S	4.61		0.065 B	52	0.29	18
19		0.022 B	21	0.04		1.80 B	67	10.4		0.063 B	51	0.28	19
20		0.023 B	21	0.04		3.75 B	112 S	36.3		0.061 B	50	0.26	20
21		0.022 B	20	0.04		3.15 B	180 S	49.0		0.060 B	49	0.25	21
22		0.022 B	20	0.04		2.80 B	149	36.0		0.067	62	0.36	22
23		0.022 B	21	0.04	0.4	4.40 B	561 S	213		0.077	88 S	0.59	23
24		0.021 B	20	0.04	0.5	2.18	70 S	13.2		0.092	54	0.43	24
25		0.021 B	20	0.04		0.887	45	3.45		0.109	32	0.30	25
26		0.024 B	19	0.04		0.556	43	2.07	3.0	0.120	34 S	0.35	26
27		0.031 B	19	0.05		0.450	59	2.29		0.184	45	0.72	27
28	0.1	0.026 B	19 S	0.04		0.739	105	6.70		0.227	55	1.08	28
29		0.025 B	19	0.04						0.279	46	1.11	29
30		0.024 B	19	0.04					3.0	1.04	353 S	31.7	30
31		0.027 B	19	0.04						0.948	72 S	5.90	31
TOTAL		0.739		4.19		22.233		378.90		5.924		53.72	TOTAL
MEAN		0.024		0.14		0.794		13.5		0.191		1.73	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.588	47	2.39		0.092	42	0.33		0.040	43	0.15	1
2		0.358	45	1.39		0.083	40	0.29		0.033	40	0.11	2
3		0.268	46 S	1.07		0.074	38	0.24		0.042	60	0.22	3
4		0.247	62 S	1.32		0.069	37	0.22		0.056	74	0.36	4
5		0.207	9	0.16	13.0	0.067	34 S	0.20		0.050	43	0.19	5
6		0.141	7	0.09		0.064	30	0.17		0.043	40	0.15	6
7		0.106	7	0.06		0.060	28	0.15		0.032	36	0.10	7
8	8.0	0.095	6 S	0.05		0.057	24	0.12		0.018	33	0.05	8
9		0.091	8	0.06		0.057	20	0.10		0.019	64	0.11	9
10		0.081	6	0.04		0.085	18	0.13		0.020	81	0.14	10
11		0.079	9	0.06		0.501	63 S	2.73		0.019	38	0.06	11
12		0.075	9	0.06		0.372	36	1.16		0.007	12	0.01	12
13		0.072	12	0.07		0.231	31	0.62		0.003	8	0	13
14		0.420	92 S	3.34		0.167	26	0.38		0.014	40 S	0.05	14
15		0.322	21	0.58		0.161	24	0.33		0.020	45	0.08	15
16		0.214	18	0.33		0.269	69	1.60		0.015	24 S	0.03	16
17		0.200	17	0.29		0.202	51	0.89		0.005	9 S	0	17
18		0.178	16	0.25		0.135	52	0.61	17.0	0.001	5 S	0	18
19		0.138	94	1.12		0.099	52	0.44		0	0	0	19
20		0.101	84 S	0.73		0.087	53	0.40		0	0	0	20
21		0.091	47	0.37		0.076	53	0.35		0	0	0	21
22		0.088	44	0.33		0.068	51 S	0.30		0.146	190	2.40	22
23		0.091	42	0.33		0.062	52	0.28		0.128	81	0.90	23
24		0.092	40	0.32		0.061	54	0.28		0.078	56	0.38	24
25		0.089	40	0.31		0.062	92	0.49		0.061	50	0.26	25
26		0.083	39	0.28		0.059	66	0.34		0.049	48	0.20	26
27		0.077	39	0.26		0.057	59	0.29		0.040	44	0.15	27
28		0.093	107	0.86		0.058	73	0.37		0.033	41	0.12	28
29	10.0	0.125	105 S	1.13		0.055	58	0.28		0.027	39	0.09	29
30		0.104	47	0.42		0.052	50	0.22		0.022	37	0.07	30
31						0.047	46	0.19					31
TOTAL		4.914		18.07		3.589		14.50		1.021		6.38	TOTAL
MEAN		0.164		0.60		0.115		0.47		0.034		0.21	MEAN

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.023	35	0.07		0	0	0	19.0	0.222	59 S	1.13	1
2		0.014	33	0.04		0	0	0		0.284	53	1.30	2
3		0.006	31	0.02		0	3	0		0.134	17	0.20	3
4		0.003	55	0.01		0	0	0		1.84	247	39.3	4
5		0.035	163	0.49		0	0	0	19.0	0.627	78 S	4.23	5
6		0.042	67 S	0.24		0	0	0	18.0	0.329	45 S	1.28	6
7		0.028	37	0.09		0	0	0		0.210	45	0.82	7
8		0.011	17	0.02		0	0	0		0.134	44	0.51	8
9		0.001	6	0		0	0	0		0.089	46	0.35	9
10		0	0	0		0	0	0		0.076	47	0.31	10
11		0	0	0		0.010	72	0.06					
12		0	0	0		0.025	70	0.15		0.064	47	0.26	11
13		0	0	0		0.013	26	0.03		0.055	48	0.23	12
14		0	0	0	22.0	0.003	21 S	0.01		0.046	60	0.24	13
15		0	0	0		0.001	17	0		0.041	74 S	0.26	14
						0.022	68	0.13		0.034	71	0.21	15
16		0	0	0		0.034	51	0.15		0.028	62	0.15	16
17		0	0	0		0.036	53	0.16		0.029	59	0.15	17
18		0	0	0		0.028	34	0.08		0.030	59	0.15	18
19		0	0	0		0.015	32	0.04		0.030	58	0.15	19
20		0	0	0		0.005	31	0.01		0.029	57 S	0.14	20
21		0	0	0		0.001	31	0		0.029	82	0.21	21
22		0	0	0		0.024	82	0.17		0.046	77	0.31	22
23		0	0	0		0.057	60	0.30		0.045	64	0.25	23
24		0	0	0		0.032	34	0.09		0.039	61	0.21	24
25		0	0	0		0.022	32	0.06		0.037	70	0.22	25
26		0	0	0		0.011	30	0.03		0.049	74	0.31	26
27		0	0	0		0.005	28	0.01		0.057	70	0.34	27
28		0.004	68	0.02		0.024	60	0.12		0.055	70	0.33	28
29		0.002	78	0.01		0.042	70 S	0.25		0.051	70	0.31	29
30		0.002	27	0		0.190	308	5.06		0.049	71	0.30	30
31		0	2	0		0.181	288 S	4.50					31
TOTAL		0.171		1.01		0.781		11.41		4.788		54.16	TOTAL
MEAN		0.005		0.03		0.025		0.37		0.159		1.81	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.224	144	2.79		0.178	114	1.75		0.282	43	1.05	1
2		0.268	60	1.39		0.148	112	1.43		0.690	73	4.35	2
3		0.167	41 S	0.59		0.115	111	1.10		0.491	20	0.85	3
4		0.105	38	0.34		0.097	109	0.91		0.324	17	0.48	4
5		0.092	35	0.28		0.094	112	0.91		0.237	16	0.33	5
6		0.757	295 S	19.3		0.093	133	1.07		0.191	15	0.25	6
7		0.659	116	6.60		0.085	127	0.93		0.165	15	0.21	7
8		0.419	28	1.01		0.077	127	0.84		0.126	12	0.13	8
9		0.274	22	0.52		0.071	128	0.79		0.102	8	0.07	9
10		0.199	18	0.31		0.067	127	0.74		0.088	4	0.03	10
11		0.149	18	0.23		0.066	128 S	0.73	0.1	0.084	1 S	0.01	11
12		0.105	17	0.15		0.062	128	0.69		0.077	1	0.01	12
13		0.090	16	0.12		0.060	129	0.67		0.072	1	0.01	13
14		0.084	14	0.10		0.059	128	0.65		0.071	1	0.01	14
15	9.5	0.098	16 S	0.14		0.059	125	0.64		0.070	2	0.01	15
16		0.103	15	0.13		0.064	114	0.63		0.066	2	0.01	16
17		0.093	18	0.14		0.069	96	0.57		0.062	3	0.02	17
18		0.375	276	8.94		0.069	70	0.42		0.058	5	0.03	18
19		0.420	149 S	5.41		0.069	37	0.22		0.053	6	0.03	19
20		0.312	84	2.26		0.345	61 S	1.82		0.049	6	0.03	20
21		0.318	85	2.34		0.508	64	2.81	0.1	0.046 B	11 S	0.04	21
22		0.706	124	7.56		0.314	33	0.90		0.045 B	10	0.04	22
23		1.11	147	14.1		0.241	29	0.60		0.048 B	9	0.04	23
24		0.771	111	7.39		0.186	28	0.45		0.044 B	9	0.03	24
25		0.439	49	1.86		0.136	27	0.32		0.042 B	8	0.03	25
26		0.323	40	1.12		0.168	39	0.57		0.041 B	9	0.03	26
27		0.432	158	5.90		1.89	129 S	21.1		0.040 B	6	0.02	27
28		0.605	175 S	9.15		0.709	36	2.21		0.040 B	8	0.03	28
29		0.350	128	3.87		0.389	35	1.18		0.040 B	7	0.02	29
30	6.0	0.256	121 S	2.68		0.275	36	0.86		0.039 B	6	0.02	30
31		0.210	117	2.12						0.038 B	5	0.02	31
TOTAL		10.513		108.84		6.763		48.51		3.821		8.24	TOTAL
MEAN		0.339		3.51		0.225		1.62		0.123		0.27	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	126	
MAXIMUM DAILY	561	ON FEB 23
MINIMUM DAILY	0	ON JUN 19

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1.98	
MAXIMUM DAILY	213	ON FEB 23
MINIMUM DAILY	0	ON JUN 13

TOTAL SUSPENDED SEDIMENT LOAD 707.93 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 40 12 N
LONG 80 35 48 W
DRAINAGE AREA 17.9 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA036

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
FEB 23	13:45	4.40	0.2	769 K	19	24	50	75	88	97	99	100				BNW
MAR 30	18:00	1.04H	3.0	557 K	25	36	63	88	94	98	99	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2.90 B	11	2.76		3.45 B	49	14.6		14.7	62	78.7	1
2		2.85 B	12	2.95	0.1	3.55 B	48 S	14.7	1.0	11.6	38 S	38.1	2
3		2.80 B	11	2.66		3.34 B	33	9.52		8.93	25	19.3	3
4		3.05 B	11	2.90	0.1	3.10 B	19 S	5.09	0.1	8.07	18 S	12.6	4
5	0.1	3.30 B	10 S	2.85		2.80 B	29	7.02		8.10	18	12.6	5
6		3.60 B	6	1.87	0.1	2.85 B	48 S	11.8	1.0	7.12	28 S	17.2	6
7	0.1	3.55 B	4 S	1.23		2.95 B	46	11.7		7.06	36	22.0	7
8		3.45 B	3	0.89		2.85 B	46	11.3		6.82	35	20.6	8
9	0.1	3.40 B	3 S	0.88	0.1	2.81 B	45 S	10.9	1.0	6.86	34 S	20.2	9
10		3.25 B	6	1.68		2.80 B	54	13.1		6.88	25	14.9	10
11		3.15 B	11	2.99	0.1	15.0 B	153 S	198	1.0	6.72	23 S	13.4	11
12	0.1	3.05 B	19 S	5.01	0.1	13.3 B	24 S	27.6		6.48	29	16.2	12
13		3.05 B	19	5.01		12.0 B	21	21.8	1.0	6.42	37 S	20.5	13
14	0.1	3.08 B	17 S	4.52		11.2 B	23	22.3		5.89	34	17.3	14
15		3.13 B	15	4.06		10.3 B	25	22.2		6.09	32	16.8	15
16	0.1	3.20 B	14 S	3.87		19.0 B	72	118	0.1	5.95	27 S	13.9	16
17		3.19 B	13	3.58		35.0 B	986	2 980		5.56	17	8.17	17
18		3.15 B	12	3.27		56.0 B	1 120	5 420	0.1	4.24	15 S	5.50	18
19	0.1	3.19 B	10 S	2.76		80.0 B	932	6 370		4.60 B	29	11.5	19
20		3.30 B	18	5.13		64.0 B	992	5 490	0.1	4.45 B	35 S	13.5	20
21	0.1	3.25 B	30 S	8.42		50.0 B	518	2 240		4.40 B	38	14.4	21
22		3.21 B	37	10.3		38.0	220	722		4.80 B	45	18.7	22
23	0.1	3.30 B	46 S	13.1	0.1	37.3	288 S	928	0.1	5.18	40 S	17.9	23
24		3.45 B	42	12.5	0.1	39.6	311 S	1 060		5.21	31	14.0	24
25		3.65 B	37	11.7	0.1	25.5	117 S	258	1.0	5.36	21 S	9.73	25
26	0.1	4.00 B	34 S	11.8		17.4	63	94.7		5.36	19	8.80	26
27		3.80 B	31	10.2	0.1	13.1	53 S	60.0		5.92	24	12.3	27
28	0.1	3.55 B	27 S	8.28		14.6	67	84.5		6.16	26	13.8	28
29		3.30 B	28	7.98						6.14	27	14.3	29
30	0.1	3.16 B	36 S	9.83						8.79	84	63.8	30
31		3.30 B	43	12.3						12.3	119	126	31
TOTAL		101.61		177.28		581.80		26 226.83		212.16		706.70	TOTAL
MEAN		3.28		5.72		20.8		937		6.84		22.8	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	7.0	10.8	27 S	25.2	7.0	4.91	12 S	5.09	12.0	4.01	7 S	2.43	1
2		9.57	13	10.7		4.85	8	3.35		3.85	8	2.66	2
3	8.0	8.16	7 S	4.94		4.68	6	2.43	15.0	4.42	66 S	25.2	3
4		7.52	10	6.50	9.0	4.60	4 S	1.59		4.25	12	4.41	4
5		7.72	15	10.0		4.61	4	1.59	17.0	4.21	13 S	4.73	5
6	4.0	7.08	8 S	4.89	9.0	4.37	6 S	2.27		3.92	11	3.73	6
7		6.28	7	3.80		4.18	3	1.08		3.62	12	3.75	7
8		5.85	8	4.04	10.0	4.02	2 S	0.69	16.0	3.64	11 S	3.46	8
9	10.0	5.70	8 S	3.94		4.04	2	0.70		3.69	12	3.83	9
10	8.0	5.53	8 S	3.82		4.50	9	3.50		3.90	26	8.76	10
11		5.43	10	4.69	9.0	9.51	131 S	108	15.0	4.58	24 S	9.50	11
12		5.27	11	5.01		12.5	104	112	17.0	4.32	16 S	5.97	12
13	5.0	5.05	13 S	5.67	6.0	8.83	28 S	21.4		4.05	18	6.30	13
14	10.0	9.01	82 S	63.8		6.80	29	17.0		4.07	14	4.92	14
15	4.0	9.94	49 S	42.1	8.0	6.39	36 S	19.9		3.96	14	4.79	15
16		7.93	30	20.6		6.40	28	15.5		3.89	19	6.39	16
17		6.70	22	12.7		5.95	22	11.3	19.0	4.23	36 S	13.2	17
18		6.60	20	11.4		5.31	17	7.80		3.72	27	8.68	18
19		6.00	16	8.29		4.96	13	5.57		3.58	23	7.11	19
20	5.0	5.68	11 S	5.40	10.0	4.68	10 S	4.04		3.46	22	6.58	20
21		5.34	10	4.61		4.50	9	3.50		3.83	53	17.5	21
22	5.0	5.07	7 S	3.07	14.0	4.24	10 S	3.66	16.0	5.79	192 S	96.0	22
23		5.53	11	5.26		4.02	9	3.13	16.0	7.00	66 S	39.9	23
24	6.0	6.48	21 S	11.8		3.96	10	3.42	15.0	5.86	45 S	22.8	24
25		6.40	23	12.7	15.0	3.95	11 S	3.75		4.80	29	12.0	25
26		5.87	16	8.11		4.36	16	6.03	14.0	4.17	22 S	7.93	26
27	7.0	5.14	11 S	4.89	16.0	4.86	28 S	11.8		3.84	17	5.64	27
28		4.97	11	4.72		5.32	34	15.6		3.55	13	3.99	28
29	10.0	5.47	12 S	5.67	15.0	5.11	29 S	12.8		3.49	11	3.32	29
30		5.67	13	6.37		4.81	22	9.14		3.28	9	2.55	30
31						4.52	14	5.47					31
TOTAL		197.76		324.69		165.74		423.10		124.98		348.03	TOTAL
MEAN		6.59		10.8		5.35		13.6		4.17		11.6	MEAN

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		3.57	7	2.16		3.94	16	5.45	18.0	6.91	98 S	58.5	1
2	19.0	3.55	8 S	2.45		3.65	18	5.68		6.15	127	67.5	2
3	20.0	3.66	10 S	3.16		3.75	25	8.10	18.0	7.28	227 S	143	3
4		3.80	39	12.8	20.0	7.56	182 S	119	18.0	34.9	824 S	2 480	4
5		20.1	322	559	22.0	8.42	282 S	205		36.0	390	1 210	5
6	17.0	26.1	194 S	437		5.01	74	32.0		18.5	124	198	6
7		12.1	69	72.1	19.0	4.40	32 S	12.2		10.1	92	80.3	7
8	21.0	6.57	57 S	32.4		4.53	80	15.7		7.72	76	50.7	8
9		4.98	36	15.5		4.35	27	10.1	14.0	6.19	46 S	24.6	9
10	25.0	4.31	20 S	7.45	19.0	4.86	30 S	12.6		5.57	22	10.6	10
11		4.00	17	5.88		5.95	55	28.3	14.0	4.97	11 S	4.72	11
12		3.67	16	5.07	23.0	5.34	27 S	12.5		4.69	9	3.65	12
13	22.0	3.43	13 S	3.85		5.15	45	20.0		4.35	7	2.63	13
14		3.35	12	3.47	19.0	5.08	40 S	17.6	17.0	4.24	7 S	2.56	14
15	18.0	3.20	5 S	1.38		8.00	113	78.1		4.04	8	2.79	15
16		3.14	5	1.36		6.96	46	27.7	12.0	3.84	10 S	3.32	16
17	19.0	3.12	8 S	2.16		5.51	29	13.8		3.84	6	1.99	17
18		3.55	17	5.21		4.63	25	10.0	10.0	3.79	1 S	0.33	18
19		3.43	10	2.96		4.05	20	7.00		3.79	2	0.65	19
20	22.0	3.59	8 S	2.48		3.79	17	5.57		3.65	1	0.32	20
21		3.48	5	1.50		3.64	16	5.03	9.0	4.14	26 S	9.30	21
22	16.0	3.45	4 S	1.19		3.46	15	4.48		5.15	18	8.01	22
23		3.11	2	0.54		3.44	14	4.16	7.0	4.52	3 S	1.17	23
24	16.0	3.07	6 S	1.59		3.49	15	4.52		4.14	2	0.72	24
25		2.95	6	1.53		3.46	15	4.48	10.0	3.97	1 S	0.34	25
26		2.95	6	1.53		3.26	14	3.94		4.29	2	0.74	26
27	20.0	3.01	6 S	1.56		3.17	17	4.66		4.31	2	0.74	27
28		6.33	135	73.8		4.98	51	21.9		3.99	4	1.38	28
29	14.0	7.58	107 S	70.1		5.55	36	17.3	8.0	3.76	3 S	0.97	29
30		5.85	48	24.3		7.98	129	88.9		3.69 A	6	1.91	30
31	17.0	4.57	18 S	7.11		8.35	119	85.9					31
TOTAL		169.57		1 362.59		155.71		891.67		222.48		4 371.44	TOTAL
MEAN		5.47		44.0		5.02		28.8		7.42		146	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	8.0	6.40 E	45 S	24.9		7.60	19	12.5		8.12	7	4.91	1
2	6.0	5.62	36 S	17.5	6.0	7.17	15 S	9.29	1.0	10.1	20 S	17.5	2
3		4.83	11	4.59		6.67	9	5.19	1.0	10.4	11 S	9.88	3
4		4.45	6	2.31	4.0	6.25	5 S	2.70	0.1	8.87	8 S	6.13	4
5	7.0	4.25	4 S	1.47		6.22	5	2.69		7.77	7	4.70	5
6		9.11	171	135	6.0	6.31	6 S	3.27		7.18	5	3.10	6
7	7.0	9.21	96 S	76.4		6.21	5	2.68	1.0	6.91	3 S	1.79	7
8		6.98	32	19.3		6.03	4	2.08		6.99	5	3.02	8
9	5.0	5.46	12 S	5.66	3.0	5.92	4 S	2.05	0.1	5.60 B	5 S	2.42	9
10		4.80	10	4.15		5.59	4	1.93		5.10 B	5	2.20	10
11		4.50	8	3.11	2.0	5.43	4 S	1.88	0.1	4.80 B	5 S	2.07	11
12		4.47	6	2.32		5.36	5	2.32		4.60 B	6	2.38	12
13		4.26	5	1.84	0.1	5.19	4 S	1.79		4.40 B	7	2.66	13
14		4.25	5	1.84		5.04	4	1.74	0.1	4.50 B	8 S	3.11	14
15		4.53	5	1.96		5.06	6	2.62		4.80 B	7	2.90	15
16	7.0	4.83	6 S	2.50	4.0	10.6	120 S	110	0.1	4.30 B	5 S	1.86	16
17		4.64	5	2.00		16.4	77	109		3.85 B	5	1.66	17
18		9.07	82	64.3	5.0	12.0	24 S	24.9	0.1	3.60 B	5 S	1.56	18
19	6.0	8.78	42 S	31.9		9.09	11	8.64		3.45 B	5	1.49	19
20		6.93	21	12.6	3.0	22.1	277 S	529		3.25 B	5	1.40	20
21	6.0	6.17	18 S	9.60		24.9	77	166	0.1	3.15 B	5 S	1.36	21
22		13.4	93	108		14.3	24	29.7		3.55 B	6	1.84	22
23	2.0	19.1	131 S	216	0.1	10.1	8 S	6.98	0.1	4.20 B	13 S	4.72	23
24		14.3	73	90.2		8.58	6	4.45		4.10 B	12	4.25	24
25		9.65	30	25.0	0.1	7.50	7 S	4.54		3.95 B	8	2.73	25
26	3.0	8.69	17 S	12.8		7.28	6	3.77		3.90 B	8	2.70	26
27		20.6	150	267	2.0	11.7	62 S	62.7		3.85 B	8	2.66	27
28	6.0	42.0	373 S	1 150		12.9	31	34.6		4.00 B	8	2.76	28
29		17.9	58	89.7		10.3	12	10.7		3.95 B	9	3.07	29
30	4.0	11.4	26 S	25.6	0.1	8.59	7 S	5.20		3.90 B	9	3.03	30
31		8.85	21	16.1						3.85 B	7	2.33	31
TOTAL		289.43		2 625.65		276.39		1 164.91		160.99		108.19	TOTAL
MEAN		9.34		84.7		9.21		38.8		5.19		3.49	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 38 731.08 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	169		MEAN	106	
MAXIMUM DAILY	1 120	ON FEB 18	MAXIMUM DAILY	6 370	ON FEB 19
MINIMUM DAILY	1	ON SEP 18	MINIMUM DAILY	0.32	ON SEP 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 32 37 N
LONG 79 39 29 W
DRAINAGE AREA 829 km²
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
AUG 05	11:30	8.42N	22.0	300 K	53	66	82	95	97	98	100					BMW
SEP 04	07:30	34.9 H	18.0	1 340 K	12	20	33	54	75	97	99	100				BMW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.102 B	14	0.12		0.162 B	65	0.91		0.765	24	1.59	1
2		0.100 B	13	0.11		0.148 B	43	0.55		0.476	15	0.62	2
3		0.099 B	12	0.10		0.132 B	19	0.22		0.330 B	11	0.31	3
4		0.098 B	12	0.10		0.118 B	12	0.12		0.285 B	11	0.27	4
5		0.097 B	12	0.10		0.106 B	11	0.10		0.255 B	10	0.22	5
6	0.1	0.096 B	12 S	0.10		0.098 B	12	0.10		0.277	8	0.19	6
7		0.095 B	12	0.10		0.093 B	12	0.10		0.275	8	0.19	7
8		0.094 B	11	0.09		0.090 B	12	0.09		0.268	9	0.21	8
9		0.094 B	12	0.10		0.088 B	12	0.09	4.0	0.279	9 S	0.22	9
10		0.094 B	11	0.09		0.090 B	11	0.09		0.280	7	0.17	10
11		0.094 B	11	0.09		0.210 B	49	0.89		0.272	7	0.16	11
12		0.094 B	10	0.08		0.380 B	23	0.76		0.245 B	10	0.21	12
13		0.093 B	9	0.07		0.340 B	12	0.35		0.230 B	9	0.18	13
14		0.092 B	10	0.08		0.320 B	13	0.36		0.210 B	7	0.13	14
15		0.093 B	17	0.14		0.305 B	12	0.32		0.200 B	7	0.12	15
16		0.094 B	23	0.19	0.1	0.295 B	12 S	0.31		0.210 B	25	0.45	16
17	0.1	0.092 B	19 S	0.15	0.5	0.376 B	23 S	0.75		0.173 B	10	0.15	17
18		0.090 B	15	0.12		1.35 B	41	4.78		0.170 B	11	0.16	18
19		0.091 B	14	0.11	2.0	3.00 B	120 S	31.1		0.166 B	10	0.14	19
20		0.092 B	19	0.15	1.5	5.30 B	258 S	118		0.162 B	8	0.11	20
21		0.091 B	14	0.11	1.0	4.10 B	240 S	85.0		0.158 B	8	0.11	21
22		0.090 B	10	0.08		3.40	246	72.3		0.178	7	0.11	22
23		0.089 B	10	0.08	2.6	6.43	669 S	372		0.192	8	0.13	23
24	0.1	0.088 B	10 S	0.08	1.3	2.18	78 S	14.7		0.214	9	0.17	24
25		0.089 B	12	0.09		1.08	28	2.61		0.254	9	0.20	25
26		0.140 B	25	0.30		0.689	12	0.71	4.0	0.249	10 S	0.22	26
27		0.137 B	17	0.20	6.0	0.575	9 S	0.45		0.295	20	0.51	27
28	0.1	0.130 B	11 S	0.12	2.0	0.922	46 S	3.66	7.0	0.328	17 S	0.48	28
29		0.105 B	11	0.10						0.381	25	0.82	29
30		0.100 B	13	0.11					7.5	1.20	209 S	21.7	30
31		0.140 B	27	0.33					6.0	1.03	73 S	6.50	31
TOTAL		3.093		3.79		32.377		711.42		10.007		36.75	TOTAL
MEAN		0.100		0.12		1.16		25.4		0.323		1.19	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.687	13	0.77		0.172	5	0.07		0.101	4	0.03	1
2		0.462	12	0.48		0.153	3	0.04		0.100	4	0.03	2
3		0.385	12	0.40		0.142	3	0.04		0.110	5	0.05	3
4	11.0	0.406	29 S	1.02		0.135	2	0.02		0.117	16	0.16	4
5		0.333	15	0.43	13.0	0.135	3 S	0.03		0.091	12	0.09	5
6		0.247	14	0.30		0.134	3	0.03	20.0	0.092	11 S	0.09	6
7		0.219	13	0.25		0.130	4	0.04		0.087	10	0.08	7
8	8.0	0.198	22 S	0.38		0.124	2	0.02		0.089	9	0.07	8
9		0.194	14	0.23		0.124	2	0.02		0.093	10	0.08	9
10		0.162	13	0.18		0.266	32	0.74		0.102	10	0.09	10
11		0.160	15	0.21	8.0	0.649	38 S	2.13		0.094	8	0.06	11
12		0.165	14	0.20		0.423	12	0.44		0.090	6	0.05	12
13		0.164	16	0.23		0.282	6	0.15	16.0	0.090	9 S	0.07	13
14	6.0	0.634	62 S	3.40		0.242	6	0.13		0.098	28	0.24	14
15		0.355	18	0.55		0.268	5	0.12		0.097	17	0.14	15
16		0.266	14	0.32		0.356	35	1.08		0.092	16	0.13	16
17		0.296	24	0.61		0.260	11	0.25		0.091	15	0.12	17
18	6.0	0.297	21 S	0.54		0.207	11	0.20	18.0	0.087	14 S	0.11	18
19		0.238	14	0.29		0.174	9	0.14		0.086	14	0.10	19
20		0.216	13	0.24		0.153	10	0.13	19.0	0.078	12 S	0.08	20
21		0.190	13	0.21		0.143	11	0.14		0.097	12 S	0.10	21
22		0.185	12	0.19		0.126	8	0.09	15.0	0.446	72 S	2.77	22
23		0.209	24	0.43		0.124	7	0.07		0.222	11	0.21	23
24	5.0	0.217	15 S	0.28		0.112	8	0.08		0.140	10	0.12	24
25		0.186	14 S	0.22		0.119	6	0.06		0.118	8	0.08	25
26		0.166	12 S	0.17		0.119	6	0.06		0.102	7	0.06	26
27		0.157	10 S	0.14		0.122	5	0.05		0.096	5	0.04	27
28	10.0	0.244	13 S	0.27		0.125	5	0.05		0.087	5	0.04	28
29		0.243	7	0.15		0.117	4	0.04		0.087	6	0.05	29
30		0.200	6	0.10	16.0	0.111	5 S	0.05		0.086	4	0.03	30
31						0.103	4	0.04					31
TOTAL		8.081		13.19		5.850		6.55		3.366		5.37	TOTAL
MEAN		0.269		0.44		0.189		0.21		0.112		0.18	MEAN

EAST CAMAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 03GA035

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.086	4	0.03		0.088	8	0.06	19.0	0.227	13 S	0.25	1
2		0.087	5	0.04		0.087	6	0.05	19.0	0.305	29 S	0.76	2
3		0.084	3	0.02	19.0	0.101	16 S	0.14		0.196	22	0.37	3
4	21.0	0.093	39 S	0.31		0.103	9	0.08	18.5	2.31	465 S	92.8	4
5		0.110	14	0.13		0.097	8	0.07		0.659	59	3.36	5
6		0.096	4	0.03		0.090	6	0.05	18.0	0.408	8 S	0.28	6
7		0.082	3	0.02		0.091	6	0.05		0.268	6	0.14	7
8		0.079	3	0.02	20.0	0.090	5 S	0.04		0.220	6	0.11	8
9		0.077	4	0.03		0.090	5	0.04		0.165	7	0.10	9
10		0.075	4	0.03	19.0	0.185	43 S	0.69		0.142	7	0.09	10
11	24.0	0.070	4 S	0.02		0.177	23	0.35		0.126	8	0.09	11
12		0.069	6	0.04		0.110	7	0.07		0.114	8	0.08	12
13		0.071	8	0.05	21.0	0.096	11 S	0.09		0.108	8	0.07	13
14	25.0	0.071	11 S	0.07		0.097	12	0.10		0.112	13	0.13	14
15		0.069	9	0.05	19.0	0.247	33 S	0.70		0.096	14	0.12	15
16		0.069	8	0.05		0.184	11	0.14		0.084	17	0.12	16
17		0.071	10	0.06		0.112	10	0.10		0.107	8	0.07	17
18	23.0	0.079	33 S	0.23		0.099	8	0.07		0.109	9	0.08	18
19		0.085	21	0.15		0.093	9	0.07	13.0	0.102	10 S	0.09	19
20		0.081	10	0.07		0.086	9	0.07		0.102	9	0.08	20
21		0.082	10	0.07		0.089	7	0.05		0.110	26	0.25	21
22		0.079	9	0.06	18.0	0.109	17 S	0.16	10.0	0.148	42 S	0.54	22
23		0.077	9	0.06		0.105	7	0.06		0.111	9 S	0.09	23
24		0.073	10	0.06		0.099	7	0.06		0.108	7 S	0.07	24
25		0.078	10	0.06		0.094	8	0.06		0.113	6 S	0.06	25
26		0.075	13	0.08		0.091	9	0.07	16.0	0.149	3 S	0.04	26
27		0.078	17	0.11		0.090	12	0.09		0.139	4	0.05	27
28	15.0	0.243	66 S	1.39	17.0	0.165	42 S	0.60		0.125	4	0.04	28
29		0.146	26	0.33	18.0	0.132	13 S	0.15		0.119	5	0.05	29
30		0.097	17	0.14		0.432	67	2.50		0.112	3	0.03	30
31		0.088	12	0.09		0.317	17	0.47					31
TOTAL		2.716		3.90		4.006		7.30		7.194		100.41	TOTAL
MEAN		0.087		0.13		0.129		0.24		0.240		3.35	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	11.0	0.513	55 S	2.44		0.264	13	0.30		0.334	9	0.26	1
2		0.344	11	0.33		0.230	12	0.24		0.853	36	2.65	2
3	9.0	0.215	4 S	0.07		0.204	11	0.19		0.539	5	0.23	3
4		0.175	4	0.06		0.191	10	0.17		0.376	3	0.10	4
5		0.160	6	0.08		0.206	21	0.37	2.0	0.292	2 S	0.05	5
6	11.5	0.882	110 S	8.38		0.196	4	0.07		0.236	3	0.06	6
7		0.581	11	0.55	5.0	0.174	2 S	0.03		0.222	4	0.08	7
8		0.366	10	0.32		0.150	3	0.04		0.200 B	2	0.03	8
9		0.249	10	0.22		0.151	2	0.03		0.180 B	3	0.05	9
10		0.205	10	0.18		0.151	4	0.05		0.165 B	5	0.07	10
11		0.178	10	0.15		0.158	4	0.05	0.1	0.155 B	4 S	0.05	11
12		0.163	10	0.14		0.148	5	0.06		0.150	5	0.06	12
13		0.151	9	0.12		0.130	5	0.06		0.148	5	0.06	13
14		0.152	8	0.11		0.123	7	0.07		0.147	5	0.06	14
15	10.0	0.200	7 S	0.12		0.121	7	0.07		0.149	4	0.05	15
16		0.184	5	0.08		0.142	23	0.28		0.146	4	0.05	16
17	9.0	0.167	5 S	0.07		0.154	8	0.11		0.140	5	0.06	17
18		0.436	46	1.73		0.138	8	0.10		0.132 B	5	0.06	18
19		0.397	9	0.31		0.138	9	0.11		0.128 B	6	0.07	19
20		0.315	7	0.19		0.422	31	1.13		0.126 B	6	0.07	20
21		0.374	31	1.00	3.0	0.464	14 S	0.56		0.124 B	5	0.05	21
22		0.682	47	2.77		0.310	5	0.13		0.126 B	4	0.04	22
23		1.12	77	7.45		0.254	6	0.13		0.135 B	4	0.05	23
24	6.0	0.790	56 S	3.82		0.221	7	0.13		0.130 B	3	0.03	24
25		0.459	32	1.27		0.208	5	0.09		0.125 B	5	0.05	25
26		0.379	31	1.02		0.224	11	0.21	1.0	0.120 B	4 S	0.04	26
27		0.573	89	4.41	3.0	1.64	160 S	22.7		0.116 B	3	0.03	27
28		0.793	80	5.48		0.672	22	1.28		0.115 B	4	0.04	28
29		0.463	56	2.24		0.396	10	0.34		0.116 B	4	0.04	29
30	6.0	0.340	50 S	1.47		0.310	7	0.19		0.115 B	5	0.05	30
31	8.0	0.294	22 S	0.56						0.113 B	5	0.05	31
TOTAL		12.300		47.14		8.290		29.29		6.153		4.64	TOTAL
MEAN		0.397		1.52		0.276		0.98		0.198		0.15	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	109	
MAXIMUN DAILY	669	ON FEB 23
MINIMUN DAILY	2	ON MAY 04

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	2.66	
MAXIMUN DAILY	372	ON FEB 23
MINIMUN DAILY	0.02	ON MAY 04

TOTAL SUSPENDED SEDIMENT LOAD 969.75 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 39 04 N
LONG 80 34 20 W
DRAINAGE AREA 27.7 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
FEB 23	09:25	6.43H	3.0	1 220 K	11	13	28	48	76	96	99	100			BNW
FEB 23	12:45	6.43H	2.0	844 K	9	14	32	59	80	94	99	100			BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.179 B	11	0.17		0.228 B	81	1.60		1.23 E	64	6.80	1
2		0.175 B	15	0.23		0.215 B	71 S	1.32		0.970	61 S	5.11	2
3		0.170 B	17	0.25		0.205 B	61	1.08		0.810 B	59	4.13	3
4		0.166 B	16	0.23		0.195 B	48 S	0.81		0.750 B	60 S	3.89	4
5		0.164 B	21	0.30		0.185 B	43	0.69		0.720 B	52	3.23	5
6		0.160 B	36	0.50		0.180 B	45 S	0.70		0.750 B	51 S	3.30	6
7		0.159 B	34	0.47		0.170 B	44	0.65		0.700 B	64	3.87	7
8		0.158 B	34	0.46		0.170 B	48	0.71		0.695 E	68	4.08	8
9		0.156 B	31	0.42		0.170 B	53 S	0.78		0.630	64 S	3.48	9
10		0.154 B	33	0.44		0.178 B	57	0.88		0.630 E	54	2.94	10
11		0.152 B	30	0.39		1.95 B	117 S	19.7	6.0	0.630	45 S	2.45	11
12		0.150 B	32 S	0.41		1.52 B	94	12.3		0.590 E	44	2.24	12
13		0.149 B	31	0.40		1.32 B	20 S	2.28	3.0	0.550	35 S	1.66	13
14		0.148 B	27 S	0.35		1.18 B	35	3.57		0.577 E	44	2.19	14
15		0.147 B	26	0.33		1.02 B	43	3.79		0.603 E	43	2.24	15
16		0.147 B	23 S	0.29		1.08 B	65 S	6.07	0.1	0.630	47 S	2.56	16
17		0.146 B	26	0.33		1.18 B	237 S	24.2		0.670 B	51	2.95	17
18		0.145 B	25	0.31		1.30 B	451 S	50.7		0.640 B	46 S	2.54	18
19		0.143 B	45 S	0.56		6.64 B	308 S	177		0.600 B	43	2.23	19
20		0.140 B	80	0.97		12.5 B	601 S	649	2.0	0.450 B	32 S	1.24	20
21		0.138 B	49 S	0.58		10.2 E	200	176		0.410 B	34	1.20	21
22		0.136 B	34	0.40		3.20 E	153	42.3		0.370 E	32	1.02	22
23		0.136 B	19 S	0.22		5.73	308 S	152	5.0	0.340	33 S	0.97	23
24		0.136 B	16	0.19		4.40	168 S	63.9		0.350 E	35	1.06	24
25		0.136 B	12	0.14		2.48	48 S	10.3		0.360 E	39	1.21	25
26		0.155 B	84 S	1.12		1.92 E	31	5.14		0.370	38	1.21	26
27		0.170 B	52	0.76	4.0	1.36	37 S	4.35		0.408	33	1.16	27
28	0.1	0.150 B	56 S	0.73		0.890 E	81	6.23		0.400 E	31	1.07	28
29		0.140 B	72	0.87						0.395 E	35	1.19	29
30	0.1	0.138 B	67 S	0.80						1.02	157	13.8	30
31		0.130 B	76	0.85					9.0	1.39	58 S	6.97	31
TOTAL		4.673		14.47		61.766		1 418.05		19.638		93.99	TOTAL
MEAN		0.151		0.47		2.21		50.6		0.633		3.03	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	8.0	0.907	9 S	0.71		0.310	42 S	1.12		0.220	43 S	0.82	1
2		0.710	7 S	0.43		0.280 E	28	0.68		0.160	47	0.65	2
3	10.0	0.550	6 S	0.29		0.250 E	16	0.35		0.172	79 S	1.17	3
4	11.0	0.490	10 S	0.42		0.220	12 S	0.23		0.160	15	0.21	4
5		0.445 E	3	0.12		0.220	17	0.32	16.0	0.160	14 S	0.19	5
6	14.0	0.400	4 S	0.14		0.220	13 S	0.25		0.145 E	15	0.19	6
7		0.370	4	0.13		0.208	11	0.20		0.131 E	15	0.17	7
8	14.0	0.328	3 S	0.09		0.160	8 S	0.11	17.0	0.116	27 S	0.27	8
9	14.0	0.340	7 S	0.21		0.253 E	9	0.20		0.136 E	27	0.32	9
10	14.0	0.340	3 S	0.09		0.345 E	16	0.48	18.0	0.156	51 S	0.69	10
11		0.314 E	4	0.11	14.0	0.438	98 S	3.71		0.120	22	0.23	11
12		0.288 E	5	0.12		0.778	38 S	2.55	17.0	0.120	15 S	0.16	12
13	9.0	0.262	8 S	0.18		0.490	38 S	1.61		0.120 E	13	0.13	13
14	7.5	0.753	163 S	10.6		0.370	41 S	1.31		0.120 E	16	0.17	14
15	4.4	0.838	46 S	3.33		0.475	38 S	1.56	19.0	0.120	15 S	0.16	15
16	4.4	0.543	196 S	9.20		0.396 E	24	0.82		0.120	62	0.64	16
17		0.630	42 S	2.29		0.318 E	20	0.55	18.0	0.160	49 S	0.68	17
18		0.556 E	13	0.62		0.239 E	16	0.33		0.160	15	0.21	18
19		0.482 E	16	0.67		0.160	16 S	0.22	18.0	0.160	17 S	0.24	19
20		0.408	14 S	0.49		0.160	10 S	0.14		0.202 E	16	0.28	20
21		0.340	13	0.38		0.152	7	0.09		0.244 E	44	0.93	21
22		0.334	13 S	0.38		0.152	9 S	0.12	17.7	0.286	62 S	1.53	22
23	5.5	0.340	62 S	1.82		0.141 E	9	0.11		0.280	26	0.63	23
24		0.543	48 S	2.25		0.131 E	7	0.08	18.0	0.160	25 S	0.35	24
25		0.479 E	21	0.87		0.120	7 S	0.07		0.120	23	0.24	25
26		0.416 E	21	0.75		0.160	8	0.11	17.0	0.112	15 S	0.15	26
27		0.352	21 S	0.64		0.160	9 S	0.12		0.108 E	13	0.12	27
28		0.310	16	0.43	17.0	0.598	79 S	4.08		0.104 E	17	0.15	28
29		0.340	14 S	0.41		0.543	64 S	3.00	18.0	0.100	62 S	0.54	29
30		0.340	16	0.47		0.435 E	44	1.65	23.0	0.077	18 S	0.12	30
31						0.328 E	43	1.22					31
TOTAL		13.748		38.64		9.210		27.39		4.549		12.34	TOTAL
MEAN		0.458		1.29		0.297		0.88		0.151		0.41	MEAN

ONTARIO

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.5	0.226	153 S	2.99		0.080 E	5	0.03		0.112	7	0.07	1
2		0.264 E	22	0.50		0.063 E	6	0.03	21.5	0.088	6 S	0.05	2
3		0.302 E	22	0.57	21.0	0.047	8 S	0.03	21.0	0.423	393 S	14.4	3
4		0.339 E	22	0.64	22.0	0.044	357 S	1.36	21.0	1.95	338 S	56.9	4
5		0.377 E	431	14.0	20.0	0.160	538 S	7.48	20.0	1.62 E	153 S	21.4	5
6	24.0	0.415	304 S	10.9	18.0	0.120	9 S	0.09		1.29 E	57	6.35	6
7		0.214	83	1.53	20.0	0.088	5 S	0.04		0.960 E	41	3.40	7
8	24.0	0.120	62 S	0.64		0.099 E	9	0.08	21.0	0.630	107 S	5.82	8
9		0.100	52	0.45		0.109 E	5	0.05	18.0	0.535	39 S	1.80	9
10	23.0	0.116	39 S	0.39	22.0	0.120	30 S	0.31		0.358	29	0.90	10
11		0.102 E	26	0.23	21.0	0.124	204 S	2.19	15.0	0.280	29 S	0.70	11
12		0.088 E	17	0.13	22.0	0.160	155 S	2.14		0.240 E	25	0.52	12
13	22.0	0.074	8 S	0.05	22.0	0.120	8 S	0.08		0.200 E	22	0.38	13
14	23.0	0.041	8 S	0.03	20.0	0.120	8 S	0.08	18.0	0.160	11 S	0.15	14
15	26.0	0.026	12 S	0.03		0.173 E	800	12.0		0.702	7	0.42	15
16		0.026	7	0.02		0.227 E	502	9.85		0.152	6	0.08	16
17	23.0	0.020	7 S	0.01	16.0	0.280	21 S	0.51		0.120	8	0.08	17
18		0.048 E	7	0.03	17.0	0.160	14 S	0.19	15.5	0.120	3 S	0.03	18
19		0.076 E	13	0.09	16.0	0.160	7 S	0.10		0.120 E	2	0.02	19
20	21.0	0.104	12 S	0.11	17.0	0.112	7 S	0.07		0.120 E	2	0.02	20
21	22.0	0.092	13 S	0.10	17.0	0.120	6 S	0.06	11.0	0.120	38 S	0.39	21
22	18.0	0.029	3 S	0.01		0.107 E	9	0.08		0.190	89	1.46	22
23	25.0	0.020	3 S	0.01		0.093 E	9	0.07	10.0	0.190	4 S	0.07	23
24	20.0	0.023	5 S	0.01	20.0	0.080	43 S	0.30		0.160	4 S	0.06	24
25		0.028 E	5	0.01	18.0	0.080	4 S	0.03	10.5	0.160	6 S	0.08	25
26		0.033 E	4	0.01	18.0	0.112	4 S	0.04		0.160 E	44	0.61	26
27	22.0	0.038	3 S	0.01	18.0	0.080	4 S	0.03		0.160 E	8	0.11	27
28	16.5	0.166	190 S	2.73	17.0	0.080	96 S	0.66	11.0	0.160	3 S	0.04	28
29	21.0	0.050	35 S	0.15	19.0	0.120	90 S	0.93		0.128	5	0.06	29
30	22.0	0.112	8 S	0.08		0.104 E	8	0.07		0.120	4	0.04	30
31	24.0	0.096 E	4 S	0.03	20.5	0.088	10 S	0.08					31
TOTAL		3.765		36.49		3.630		39.02		11.728		116.41	TOTAL
MEAN		0.121		1.18		0.117		1.26		0.391		3.88	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.220	49	0.93		0.568 E	5	0.25	2.5	0.475	29 S	1.19	1
2	10.0	0.160	4 S	0.06	7.0	0.475	3 S	0.12	4.0	0.646	21 S	1.17	2
3		0.157 E	3	0.04		0.400	2	0.07		0.590	3	0.15	3
4		0.155 E	3	0.04		0.346	2	0.06	3.0	0.520	4 S	0.18	4
5	10.5	0.152	5 S	0.07		0.340	2	0.06		0.460 E	3	0.12	5
6	12.0	0.520	217 S	9.75	7.0	0.468	36 S	1.46		0.345 B	5	0.15	6
7		0.513	14	0.62		0.445 E	9	0.35	0.1	0.310 B	3 S	0.08	7
8	10.5	0.475	6 S	0.25		0.423 E	4	0.15		0.340	4	0.12	8
9		0.340	4	0.12	6.0	0.400	2 S	0.07		0.280 B	6	0.15	9
10		0.301 E	4	0.10		0.358	1	0.03		0.260 B	15	0.34	10
11		0.262 E	4	0.09		0.340	2	0.06	0.1	0.245 B	22 S	0.47	11
12		0.223 E	3	0.06		0.334	2	0.06		0.230 B	20	0.40	12
13	10.0	0.184	2 S	0.03	2.5	0.310	3 S	0.08		0.225 B	18	0.35	13
14	10.0	0.160	1 S	0.01		0.365 E	4	0.13	0.1	0.215 B	17 S	0.32	14
15		0.184	3	0.05		0.420 E	9	0.33		0.205 B	16	0.28	15
16	9.0	0.178	1 S	0.02	4.0	0.475	37 S	1.52		0.200 B	14	0.24	16
17		0.384 E	2	0.07		0.550	120	5.70		0.195 B	13	0.22	17
18		0.589 E	36	1.83		0.710	71	4.36	0.1	0.183 B	14 S	0.22	18
19	8.0	0.795	11 S	0.76		0.670	53	3.07		0.175 B	17	0.26	19
20		0.513	2	0.09	4.0	1.26	8 S	0.87		0.173 B	19	0.28	20
21		0.612 E	3	0.16		1.08 E	106	9.89	0.1	0.165 B	20 S	0.29	21
22	7.0	0.710	15 S	0.92		0.893 E	9	0.69	1.0	0.180 B	10 S	0.16	22
23	6.0	1.65	45 S	6.42	3.0	0.710	4 S	0.25		0.210 B	9	0.16	23
24		1.32 E	30	3.42		0.590	4	0.20		0.195 B	9	0.15	24
25		0.997 E	14	1.21		0.550	19	0.90		0.175 B	9	0.14	25
26		0.670	8 S	0.46		0.400	4	0.14		0.160 B	9	0.12	26
27		1.82 E	70	11.0	3.0	1.02	58 S	5.11		0.150 B	10	0.13	27
28	7.0	2.96	197 S	50.4		0.851 E	14	1.03		0.143 B	10	0.12	28
29		1.06	47	4.30		0.682 E	6	0.35		0.136 B	9	0.11	29
30		0.753	10 S	0.65	2.0	0.513	3 S	0.13		0.130 B	9	0.10	30
31		0.660 E	7	0.40						0.140 B	6	0.07	31
TOTAL		19.677		94.33		16.946		37.49		8.056		8.24	TOTAL
MEAN		0.635		3.04		0.565		1.25		0.260		0.27	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 1 936.86 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MEAN	126	MEAN	5.31
MAXIMUM DAILY	800 ON AUG 15	MAXIMUM DAILY	649 ON FEB 20
MINIMUM DAILY	1 ON OCT 14	MINIMUM DAILY	0.01 ON JUL 17

TYPE OF GAUGE - MANUAL
LOCATION - LAT 43 53 18 N
LONG 78 49 16 W
DRAINAGE AREA 58.5 km²
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	METHOD OF ANALYSIS
MAY 11	14:30	0.438H	14.0	910 K	32	40	70	96	98	99	100					BNW
JUL 01	07:40	0.226H	18.0	844 K	31	50	72	96	99	100						BNW
JUL 28	15:05	0.390	15.0	1 010 R	29	37	58	87	96	99	100					BNW
SEP 03	13:00	0.423H	21.0	1 480 K	3	68	87	96	99	100						BNW
SEP 03	18:00	0.423H	21.0	807 K	28	51	77	93	97	98	99	100				BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	METHOD OF ANALYSIS	TYPE OF SAMPLER
SEP 23	08:00	0.190 H	5	2	4	7	20	48	57	59	61	62	64	71	88	100	SHW	SCOOP

H - DAILY MEAN DISCHARGE

ONTARIO

HALFWAY CREEK AT MOOSONEE - STATION NO. 04KA002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.126 B	12	0.13		0.066 B	55	0.31		0.061 B	59	0.31	1
2		0.122 B	14	0.15	0.3	0.065 B	56 S	0.31		0.060 B	60	0.31	2
3		0.119 B	16	0.16		0.064 B	52	0.29		0.060 B	60	0.31	3
4		0.117 B	19	0.19		0.064 B	55	0.30		0.059 B	60	0.31	4
5		0.112 B	21	0.20		0.063 B	56	0.30		0.058 B	60	0.30	5
6		0.110 E	23	0.22		0.062 B	56	0.30		0.058 B	60	0.30	6
7		0.108 E	26	0.24		0.061 B	57	0.30		0.057 B	61	0.30	7
8	0.1	0.107 A	27 S	0.25		0.060 B	58	0.30		0.057 B	61	0.30	8
9		0.105 E	25	0.23		0.060 B	58	0.30		0.057 B	62	0.31	9
10		0.102 E	22	0.19		0.059 B	59	0.30		0.056 B	62	0.30	10
11		0.100 E	21	0.18		0.058 B	59	0.30		0.056 B	63	0.30	11
12		0.097 E	18	0.15		0.058 B	61	0.31		0.056 B	63	0.30	12
13		0.095 E	16	0.13		0.058 B	61	0.31		0.055 B	63	0.30	13
14	0.1	0.094 A	14 S	0.11		0.059 B	62	0.32		0.055 B	63	0.30	14
15		0.093 B	14	0.11		0.060 B	62	0.32		0.055 B	64	0.30	15
16		0.089 B	15	0.12		0.060 B	62	0.32		0.054 B	63	0.29	16
17		0.095 B	17	0.14		0.060 B	62 S	0.32		0.054 B	64	0.30	17
18		0.099 B	17	0.15		0.063 B	62	0.34		0.054 B	65 S	0.30	18
19	0.1	0.081 B	19 S	0.13		0.062 B	61	0.33		0.054 B	64	0.30	19
20		0.075 B	19	0.12		0.062 B	59	0.32		0.054 B	63	0.29	20
21		0.075 B	19	0.12		0.062 B	59	0.32		0.054 B	62	0.29	21
22		0.079 B	19	0.13		0.061 B	58	0.31		0.055 B	61	0.29	22
23		0.079 B	19	0.13		0.060 B	58	0.30		0.056 B	60	0.29	23
24		0.075 B	19	0.12		0.060 B	57 S	0.30		0.057 B	60 S	0.30	24
25		0.076 B	19	0.12		0.060 B	58	0.30		0.058 B	59	0.30	25
26		0.074 B	20	0.13		0.061 B	58	0.31		0.058 B	59	0.30	26
27		0.064 B	27	0.15		0.062 B	58	0.31		0.059 B	59	0.30	27
28	0.1	0.067 B	42 S	0.24		0.062 B	58	0.31		0.060 B	59	0.31	28
29		0.073 B	50	0.32						0.063 B	59	0.32	29
30		0.071 B	46	0.28						0.066 B	59	0.34	30
31		0.063 B	46	0.25						0.070 B	60	0.36	31
TOTAL		2.842		5.29		1.712		8.66		1.786		9.43	TOTAL
MEAN		0.092		0.17		0.061		0.31		0.057		0.30	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.077 B	60	0.40		3.23	41	11.4	6.0	2.03	39 S	6.84	1
2		0.086 B	60	0.45		3.25	30	8.42		1.91	38	6.27	2
3		0.100 B	60	0.52		3.18	24	6.59		1.76	36	5.47	3
4		0.150 B	60	0.78	1.0	3.40	21 S	6.17		1.64	36	5.10	4
5		0.265 B	60	1.37		3.66	25	7.91		1.52	36	4.73	5
6		0.324	63	1.76		4.15	38	13.6		1.67	38	5.48	6
7		0.338	63	1.84		4.35	40	15.0		1.88	42	6.82	7
8		0.342	63	1.86		4.54	33	12.9		2.11	47	8.57	8
9		0.453	65	2.54		4.03	25	8.70	7.0	2.55	48 S	10.6	9
10		0.653	67	3.78		3.48	24	7.22		2.71	45	10.5	10
11		0.792	59	4.04	2.0	3.75	25 S	8.10		3.01	61	15.9	11
12		1.02	61	5.38		3.80	35	11.5		2.97	66	16.9	12
13		1.28	61	6.75		3.86	49	16.3		2.60	60	13.5	13
14		1.43	63	7.78		3.89	64	21.5		2.34	55	11.1	14
15		1.56	60 S	8.09		3.88	63	21.1		2.15	53	9.85	15
16		1.77	61	9.33		3.75	57	18.5		2.36	61	12.4	16
17		1.75	64	9.68		3.41	54	15.9	10.0	2.79	70 S	16.9	17
18		1.63	65	9.15		3.15	53	14.4		2.55	69	15.2	18
19		1.47	63	8.00	5.0	3.01	52 S	13.5		2.55	72	15.9	19
20		1.30	56	6.29		2.95	51	13.0		2.45	69	14.6	20
21		1.10	55 S	5.23		2.96	50	12.8		2.17	65	12.2	21
22		0.905	58	4.54		3.00	51	13.2		1.93	64	10.7	22
23		0.832	55	3.95		3.05	52	13.7		1.72	62	9.21	23
24		0.747	42	2.71		2.94	47	11.9		1.54	61	8.12	24
25		0.918	30	2.38		2.79	44	10.6		1.35	61	7.12	25
26		1.50	38	4.92		2.57	42	9.33		1.21	59	6.17	26
27		2.30	44 S	8.74		2.41	41	8.54		1.08	58	5.41	27
28		2.87	51	12.6		2.23	41	7.90		0.962	58	4.82	28
29		3.38	58	16.9		2.09	39	7.04	10.0	1.08	66 S	6.16	29
30		3.51	54	16.4		2.09	40	7.22	16.0	1.39	66 S	7.93	30
31						2.12	40	7.33					31
TOTAL		34.852		168.16		100.97		361.27		59.982		290.47	TOTAL
MEAN		1.16		5.61		3.26		11.7		2.00		9.68	MEAN

HALFWAY CREEK AT MOOSONEE - STATION NO. 04KA002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.46	65	8.20		0.176	64	0.97		0.105	57	0.52	1
2		1.34	63	7.29		0.157	64	0.87		0.134	57	0.66	2
3		1.14	62	6.11		0.146	63	0.79	12.0	0.160	59 S	0.82	3
4		0.963	61	5.08		0.130	63	0.71		0.152	58	0.76	4
5		0.847	61	4.46	16.0	0.122	63 S	0.66		0.151	55	0.72	5
6		0.944	60	4.89		0.110	62	0.59		0.132	51	0.58	6
7		0.829	59	4.23		0.118	62	0.63		0.120	47	0.49	7
8		0.717	58	3.59		0.105	63	0.57	12.0	0.140	54 S	0.65	8
9		0.593	57	2.92		0.112	63	0.61		0.181	54	0.84	9
10		0.496	55	2.36		0.101	63	0.55		0.189	42	0.69	10
11		0.417	54	1.95		0.103	63	0.56		0.170	34	0.50	11
12		0.433	57	2.13		0.124	63	0.67		0.242	41	0.86	12
13		0.873	70	5.28		0.130	63	0.71		0.272	36	0.85	13
14		1.04	71	6.38		0.120	63	0.65	11.0	0.275	27 S	0.64	14
15		1.04	72	6.47		0.127	63	0.69		0.273	26	0.61	15
16		0.833	64	4.61		0.121	64	0.67		0.257	26	0.58	16
17		0.719	59	3.67		0.116	63	0.63		0.254	26	0.57	17
18		0.605	58	3.03		0.127	63	0.69		0.314	28	0.76	18
19		0.482	56	2.33		0.131	62	0.70		0.436	41	1.54	19
20		0.430	55	2.04		0.126	62	0.67		0.492	48	2.04	20
21		0.447	54	2.09		0.121	62	0.65		0.505	48	2.09	21
22		0.403	52	1.81		0.109	61	0.57		0.488	44	1.86	22
23		0.346	51	1.52		0.115	62	0.62		0.459	39	1.55	23
24		0.303	51	1.34		0.114	62	0.61		0.393	35	1.19	24
25		0.277	54	1.29		0.102	61	0.54		0.332	33	0.95	25
26		0.315	69	1.88		0.097	61	0.51		0.295	29	0.74	26
27		0.317	79	2.16		0.100	61	0.53		0.270	27	0.63	27
28		0.305	72	1.90		0.094	60	0.49		0.404	37	1.29	28
29		0.201	65	1.13		0.087	60	0.45		0.449	41	1.59	29
30		0.193	64	1.07		0.099	60	0.51		0.449	39	1.51	30
31		0.174	64	0.96		0.108	58	0.54					31
TOTAL		19.482		104.17		3.648		19.61		8.493		29.08	TOTAL
MEAN		0.628		3.36		0.117		0.63		0.283		0.97	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.400	36	1.24		0.351	32	0.97		0.105 B	28	0.25	1
2		0.370	32	1.02		0.373	32	1.03		0.100 B	28	0.24	2
3		0.314	30	0.81		0.380	32	1.05		0.096 B	29	0.24	3
4		0.297	28	0.72		0.345	32	0.95		0.092 B	28	0.22	4
5		0.259	26	0.58		0.400	32	1.11		0.089 B	35	0.27	5
6		0.246	25	0.53		0.371	32	1.03		0.085 B	52	0.38	6
7		0.318	31	0.85		0.292	31	0.78	0.1	0.081 B	61 S	0.43	7
8		0.373	37	1.19		0.245 B	31	0.66		0.078 B	61	0.41	8
9		0.383	38	1.26		0.215 B	31	0.58		0.075 B	61	0.40	9
10		0.345	35	1.04		0.198 B	31	0.53		0.071 B	61	0.37	10
11		0.304	32	0.84		0.187 B	31	0.50		0.069 B	61	0.36	11
12		0.281	28	0.68		0.178 B	31	0.48		0.066 B	61	0.35	12
13		0.245	26	0.55		0.172	31	0.46		0.064 B	61	0.34	13
14		0.240	26	0.54		0.172	30	0.45		0.063 B	61	0.33	14
15		0.331	31	0.89		0.186	30	0.48		0.061 B	61	0.32	15
16		0.389	28	0.94		0.198 B	30	0.51		0.059 B	61	0.31	16
17		0.403	19	0.66		0.213 B	30	0.55		0.058 B	61	0.31	17
18		0.483	17	0.71		0.215 B	30	0.56		0.057 B	62	0.31	18
19	0.4	0.803	24 S	1.67		0.210 B	30	0.54		0.056 B	62	0.30	19
20		1.01	33	2.88		0.200 B	30	0.52		0.055 B	61	0.29	20
21		0.951	34	2.79		0.190 B	30	0.49		0.054 B	62	0.29	21
22		0.659	32	1.82		0.180 B	29	0.45		0.052 B	61	0.27	22
23		0.470 B	31	1.26	0.1	0.168 B	29 S	0.42		0.051 B	61	0.27	23
24		0.430 B	34	1.26		0.158 B	30	0.41		0.051 B	61	0.27	24
25		0.380 B	37	1.21		0.148 B	30	0.38		0.050 B	61	0.26	25
26	0.1	0.355 B	33 S	1.01		0.140 B	30	0.36		0.049 B	61	0.26	26
27		0.335 B	32	0.93		0.132 B	30	0.34		0.049 B	59	0.25	27
28		0.330 B	32	0.91		0.126 B	29	0.32		0.049 B	59	0.25	28
29		0.330 B	32	0.91		0.120 B	29	0.30		0.049 B	60	0.25	29
30		0.330 B	32	0.91		0.112 B	28	0.27		0.049 B	60	0.25	30
31		0.337	32	0.93						0.049 B	61	0.26	31
TOTAL		12.701		33.54		6.575		17.88		2.032		9.31	TOTAL
MEAN		0.410		1.08		0.219		0.58		0.065		0.30	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 1 056.47 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MEAN	48	MEAN	2.89
MAXIMUM DAILY	79 ON JUL 27	MAXIMUM DAILY	21.5 ON MAY 14
MINIMUM DAILY	12 ON JAN 01	MINIMUM DAILY	0.11 ON JAN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 15 16 N
LONG 80 39 14 W
DRAINAGE AREA 133 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.099 B	33	0.28		0.120 B	65	0.67		0.658	196	11.1	1
2		0.095 B	34	0.28		0.165 B	37 S	0.53	4.0	0.487	141 S	5.93	2
3		0.093 B	29	0.23		0.150 B	34	0.44		1.16	243	24.4	3
4		0.090 B	30	0.23		0.120 B	98 S	1.02		0.294	129 S	3.28	4
5		0.087 B	31	0.23		0.105 B	112	1.02		0.230 B	125	2.48	5
6		0.085 B	46	0.34		0.101 B	107 S	0.93		0.225 B	126 S	2.45	6
7		0.083 B	66	0.47		0.100 B	100	0.86		0.223 B	119	2.29	7
8		0.082 B	57	0.40		0.098 B	91	0.77		0.220 B	95	1.81	8
9		0.082 B	48	0.34		0.100 B	79 S	0.68		0.220 B	89 S	1.69	9
10		0.082 B	52	0.37		0.110 B	74	0.70		0.215 B	88	1.63	10
11		0.082 B	95	0.67		2.00 B	152 S	26.3	2.0	0.210 B	93 S	1.69	11
12		0.082 B	151 S	1.07		1.20 B	136	14.1		0.195 B	95	1.60	12
13		0.082 B	132	0.94		1.00 B	22 S	1.90	3.0	0.185 B	108 S	1.73	13
14		0.081 B	97 S	0.68		0.890 B	123	9.46		0.170 B	118	1.73	14
15		0.081 B	83	0.58		0.830 B	194	13.9		0.158 B	107	1.46	15
16		0.081 B	73 S	0.51		0.880 B	317 S	24.1		0.140 B	79 S	0.96	16
17		0.081 B	75	0.52		0.950 B	402 S	33.0		0.105 B	80	0.73	17
18		0.081 B	75	0.52		0.105 B	654 S	5.93		0.080 B	124 S	0.86	18
19		0.081 B	89 S	0.62	1.0	7.55 B	700 S	457		0.075 B	79	0.51	19
20		0.081 B	139	0.97		10.0 B	1 020 S	881	3.0	0.070 B	56 S	0.34	20
21		0.081 B	104 S	0.73	1.0	6.20 B	1 030 S	552		0.073 B	59	0.37	21
22		0.080 B	91	0.63		3.10	847	227		0.080 B	59	0.41	22
23		0.079 B	80 S	0.55		4.79	1 350 S	559	5.0	0.090 B	65 S	0.51	23
24		0.075 B	67	0.43		2.74	431 S	102		0.141	81	0.99	24
25		0.070 B	48	0.29		1.60	185 S	25.6		0.133	85	0.98	25
26		0.082 B	123 S	0.87		0.909	120	9.42		0.105	70	0.64	26
27		0.090 B	165	1.28	3.5	0.602	198 S	10.3		0.116	58	0.58	27
28		0.080 B	144 S	1.00		0.746	271	17.5		0.122	53	0.56	28
29		0.075 B	142	0.92						0.133	58	0.67	29
30		0.070 B	144 S	0.87						1.21	346	36.2	30
31		0.065 B	124	0.70					9.5	0.733	50 S	3.17	31
TOTAL		2.538		18.52		47.261		2 977.13		8.256		113.75	TOTAL
MEAN		0.082		0.60		1.69		106		0.266		3.67	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	8.0	0.397	37 S	1.27		0.100	44 S	0.38	16.0	0.057	73 S	0.36	1
2	10.0	0.289	34 S	0.85		0.082	41	0.29		0.051	47	0.21	2
3	10.0	0.224	20 S	0.39		0.075	38	0.25	16.0	0.076	54 S	0.35	3
4	11.0	0.227	27 S	0.53		0.073	37 S	0.23		0.078	109	0.73	4
5		0.207	24	0.43		0.088	83	0.63	16.0	0.036	80 S	0.25	5
6	4.0	0.155	25 S	0.33		0.111	78 S	0.75		0.039	72	0.24	6
7		0.135	19	0.22		0.061	36	0.19		0.036	61	0.19	7
8	9.0	0.120	21 S	0.22		0.060	42 S	0.22	16.0	0.034	52 S	0.15	8
9	9.0	0.165	25 S	0.36		0.063	42	0.23		0.039	51	0.17	9
10	13.0	0.116	18 S	0.18		0.147	142	1.80	18.0	0.114	72 S	0.71	10
11		0.149	21	0.27		1.02	460 S	40.5		0.036	65	0.20	11
12		0.125	16	0.17		0.370	76 S	2.43	17.0	0.037	74 S	0.24	12
13	9.0	0.130	16 S	0.18		0.187	72 S	1.16		0.037	67	0.21	13
14	6.7	1.16	347 S	34.8		0.186	93	1.33		0.044	66	0.25	14
15	4.4	0.335	33 S	0.96		0.161	61 S	0.85	19.0	0.041	74 S	0.26	15
16		0.188	28 S	0.45		0.139	59	0.71		0.433	197	7.37	16
17		0.498	71 S	3.05		0.091	57	0.45	18.0	0.113	76 S	0.74	17
18		0.302	49	1.28		0.068	59	0.35		0.042	57	0.21	18
19		0.180	45	0.70		0.056	54 S	0.26	18.0	0.034	53 S	0.16	19
20		0.144	44	0.55		0.051	25 S	0.11		0.035	51	0.15	20
21		0.105	38 S	0.34		0.050	33	0.14		0.110	99	0.94	21
22		0.097	33	0.28		0.049	48 S	0.20	18.0	0.528	149 S	6.80	22
23	6.0	0.210	39 S	0.71		0.052	47	0.21		0.095	38	0.31	23
24		0.330	42 S	1.20		0.044	37	0.14	17.0	0.045	31 S	0.12	24
25		0.197	36	0.61		0.068	41 S	0.24		0.036	28	0.09	25
26		0.142	48	0.59		0.050	29	0.13	16.0	0.034	39 S	0.11	26
27		0.114	45 S	0.44		0.126	41 S	0.45		0.031	33	0.09	27
28		0.098	40	0.34		0.574	189 S	9.37		0.032	36	0.10	28
29		0.222	94 S	1.80	16.0	0.143	94 S	1.16	24.0	0.029	24 S	0.06	29
30		0.132	51	0.58		0.151	99	1.29	22.0	0.032	16 S	0.04	30
31						0.089	84	0.65					31
TOTAL		6.893		54.08		4.585		67.10		2.384		21.81	TOTAL
MEAN		0.230		1.80		0.148		2.16		0.079		0.73	MEAN

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0	0.251	63 S	1.37		0.030	41	0.11		0.035	5	0.02	1
2		0.034	18	0.05		0.030	44	0.11	21.5	0.068	30 S	0.18	2
3		0.033	22	0.06	22.0	0.030	31 S	0.08	21.0	1.71	335 S	49.5	3
4		0.034	25	0.07	22.0	0.793	221 S	15.1	22.5	5.92	973 S	498	4
5		1.99	312	53.6	20.0	0.159	70 S	0.96	20.0	2.23	351 S	67.6	5
6	24.0	0.384	92 S	3.05	19.0	0.036	47 S	0.15		0.927	57	4.57	6
7		0.091	85	0.67	21.0	0.031	52 S	0.14		0.672	39	2.26	7
8	25.0	0.045	87 S	0.34		0.060	82	0.43	21.0	0.889	124 S	9.52	8
9		0.035	77	0.23		0.033	44	0.13	17.0	0.427	17 S	0.63	9
10	23.0	0.034	73 S	0.21	21.0	0.115	96 S	0.95		0.232	9	0.18	10
11		0.030	63	0.16	21.0	0.218	99 S	1.86	14.0	0.164	5 S	0.07	11
12		0.028	50	0.12	22.0	0.051	32 S	0.14		0.131	5	0.06	12
13	22.0	0.027	37 S	0.09	22.0	0.035	9 S	0.03		0.099	7	0.06	13
14		0.028	35	0.08	20.0	0.030	9 S	0.02	18.0	0.085	9 S	0.07	14
15	26.0	0.028	35 S	0.08		1.36	392	46.1	20.0	0.066	11 S	0.06	15
16		0.029	34	0.09		0.233	88	1.77		0.047	11	0.04	16
17	22.0	0.036	32 S	0.10	22.0	0.069	19 S	0.11		0.060	10	0.05	17
18		0.106	90	0.82	15.0	0.037	21 S	0.07	15.5	0.050	7 S	0.03	18
19		0.160	103	1.42	16.0	0.033	37 S	0.11		0.051	6	0.03	19
20	21.0	0.079	64 S	0.44	17.0	0.030	28 S	0.07		0.055	4	0.02	20
21	21.0	0.035	29 S	0.09	17.0	0.028	25 S	0.06	11.0	0.171	25 S	0.37	21
22	16.0	0.030	13 S	0.03		0.028	24	0.06		0.195	19	0.32	22
23	25.0	0.031	15 S	0.04		0.027	22	0.05	10.0	0.070	2 S	0.01	23
24	18.0	0.033	18 S	0.05	20.0	0.062	31 S	0.17	13.0	0.051	5 S	0.02	24
25		0.034	15	0.04	18.0	0.030	4 S	0.01	11.5	0.044	6 S	0.02	25
26		0.038	19	0.06	18.0	0.028	4 S	0.01		0.110	26	0.25	26
27	20.0	0.031	12 S	0.03	19.0	0.028	2 S	0		0.069	14	0.08	27
28	18.3	0.547	199 S	9.40	17.0	0.134	51 S	0.59	12.0	0.044	11 S	0.04	28
29	21.0	0.154	80 S	1.06	19.5	0.050	13 S	0.06		0.042	10	0.04	29
30	21.0	0.037	11 S	0.04		0.058	6	0.03		0.041	11	0.04	30
31	24.0	0.031	28 S	0.07	20.5	0.048	7 S	0.03					31
TOTAL		4.483		73.96		3.934		69.51		14.755		634.14	TOTAL
MEAN		0.145		2.39		0.127		2.24		0.492		21.1	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.155	65	0.87		0.254	36	0.79	2.0	0.281	8 S	0.19	1
2	10.0	0.063	24 S	0.13	7.0	0.238	34 S	0.70	4.0	0.398	6 S	0.28	2
3		0.048	11	0.05		0.205	34	0.60		0.268	7	0.16	3
4		0.050	11	0.05		0.182	33	0.52	4.0	0.197	12 S	0.20	4
5	10.5	0.057	19 S	0.09		0.171	35	0.52		0.158	14	0.19	5
6	12.0	0.907	166 S	13.0	7.0	0.391	37 S	1.25		0.096 B	87	0.72	6
7		0.366	57	1.80		0.293	19	0.48	0.5	0.105 B	22 S	0.20	7
8		0.225	38	0.74		0.195	15	0.25		0.165 B	13	0.19	8
9	10.5	0.150	19 S	0.25	6.0	0.159	15 S	0.21		0.120 B	15	0.16	9
10		0.109	12	0.11		0.145 E	12	0.15		0.090 B	28	0.22	10
11		0.097	13	0.11		0.130 E	12	0.13	0.1	0.050 B	37 S	0.16	11
12		0.078	17	0.11		0.125 E	10	0.11		0.045 B	31	0.12	12
13	11.0	0.070 A	20 S	0.12	5.0	0.116 E	11 S	0.11		0.042 B	21	0.08	13
14	11.0	0.102 E	20 S	0.18		0.110 E	10	0.10	0.1	0.040 B	14 S	0.05	14
15		0.102 E	21	0.19		0.170 E	11	0.16		0.038 B	12	0.04	15
16	9.0	0.090 A	9 S	0.07	4.0	0.280 E	66 S	1.60		0.036 B	12	0.04	16
17		0.080 E	6	0.04		0.345 E	89	2.65		0.035 B	17	0.05	17
18		0.565 E	9	0.44		0.265 E	12	0.27	0.1	0.035 B	23 S	0.07	18
19	8.0	0.286 A	4 S	0.10		0.245 E	9	0.19		0.035 B	22	0.07	19
20		0.160 E	6	0.08	4.0	0.410 E	98 S	3.47		0.035 B	16	0.05	20
21		0.155 E	8	0.11		0.555 E	92	4.41	0.1	0.035 B	17 S	0.05	21
22	6.0	0.600 E	15 S	0.78		0.310 E	21	0.56	0.5	0.075 B	20 S	0.13	22
23	6.0	1.04 E	46 S	4.13	3.0	0.240 B	4 S	0.08		0.230 B	10	0.20	23
24		0.375 E	41	1.33		0.263	5	0.11		0.059 B	8	0.04	24
25		0.220 E	40	0.76		0.213 B	17	0.31		0.050 B	8	0.03	25
26	9.0	0.575 A	38 S	1.89		0.328	24	0.68		0.045 B	8	0.03	26
27		1.60 E	76	10.5	3.0	1.15	89 S	8.84		0.040 B	7	0.02	27
28	7.5	1.51	107 S	14.0		0.421	5	0.18		0.038 B	6	0.02	28
29		0.487	41	1.73		0.277	6	0.14		0.037 B	6	0.02	29
30	6.0	0.342	44 S	1.30	2.0	0.220	5 S	0.10		0.037 B	6	0.02	30
31		0.290	41	1.03						0.037 B	5	0.02	31
TOTAL		10.954		56.09		8.406		29.67		2.952		3.82	TOTAL
MEAN		0.353		1.81		0.280		0.99		0.095		0.12	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 4 119.58 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	406	
MAXIMUM DAILY	1 350	ON FEB 23
MINIMUM DAILY	2	ON AUG 27

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	11.3	
MAXIMUM DAILY	881	ON FEB 20
MINIMUM DAILY	0	ON AUG 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 53 15 N
LONG 78 49 30 W
DRAINAGE AREA 41.6 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
FEB 20	13:30	10.0 H		916 K	30	38	56	82	97	100						BNW
FEB 23	14:00	4.79H		1 500 K	13	19	31	53	71	86	95	99	100			BNW
MAY 11	15:40	1.02H		2 630 K	11	14	24	36	70	93	98	100				BNW
MAY 11	17:00	1.02H		874 K	17	26	48	68	90	98	100					BNW
SEP 04	12:10	5.92H	22.0	2 090 K	18	26	44	65	85	98	99	100				BNW
SEP 04	13:00	13.2	23.0	2 200 R	16	20	32	49	66	82	92	98	99	100		BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASURE-MENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES												METHOD OF ANALYSIS	TYPE OF SAMPLER
				0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	
SEP 23	08:40	0.070 H	5	1	5	12	34	55	64	70	75	81	87	97	100	S	SCOOP

H - DAILY MEAN DISCHARGE

NUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.58 B	45	6.14		1.10 B	50	4.75		4.53	68	26.6	1
2		1.49 B	44	5.66		1.93 B	58	9.67		3.96	58	19.8	2
3		1.42 B	46	5.64		1.18 B	60	6.12		2.99	55	14.2	3
4		1.35 B	64	7.46		1.10 B	52	4.98		2.58	53	11.8	4
5		1.31 B	95	10.8		1.01 B	48	4.19		2.55 B	51	11.2	5
6		1.30 B	119	13.4		1.02 B	44	3.88		2.50 B	51	11.0	6
7		1.29 B	117	13.0		1.02 B	42	3.70		2.47 B	50	10.7	7
8		1.27 B	112	12.3		1.02 B	40	3.53	4.0	2.45 B	50 S	10.6	8
9		1.24 B	108	11.6		1.02 B	39	3.44		2.47	58	12.4	9
10		1.20 B	103	10.7		1.20 B	41	4.25		2.46	74	15.7	10
11		1.18 B	100	10.2		1.80 B	77	12.0	1.0	2.44	79 S	16.7	11
12	0.1	1.12 B	97 S	9.39		3.50 B	127	38.4		2.35	79	16.0	12
13		1.10 B	94	8.93		1.55 B	71	9.51		2.38	78	16.0	13
14		1.10 B	89	8.46		1.54 B	63	8.38		2.10	78	14.2	14
15		1.09 B	84	7.91		1.53 B	55	7.27		2.25	77	15.0	15
16		1.08 B	79	7.37		3.50 B	54	16.3		2.19	74	14.0	16
17		1.08 B	75	7.00		9.00 B	193	150		1.86	70	11.2	17
18		1.08 B	71	6.63		20.0 B	1 440	2 490		1.07	65	6.01	18
19		1.08 B	67	6.25		34.0 B	1 600	4 700		1.90	61	10.0	19
20		1.08 B	62	5.79		26.0 B	744	1 670		2.10	57	10.3	20
21		1.08 B	57	5.32		23.0	525	1 040		2.04	53	9.34	21
22		1.08 B	55	5.13	1.0	14.5	428 S	536		2.01	49	8.51	22
23		1.08 B	52	4.85		14.3	566	699		1.95	45	7.58	23
24		1.07 B	49	4.53		15.1	542	707		1.96	42	7.11	24
25		1.15 B	50	4.97		9.33	224	181		1.94	38	6.37	25
26		1.32 B	56	6.39		6.51	91	51.2		1.93	36	6.00	26
27		1.18 B	53	5.40		4.96	71	30.4		2.07	42	7.51	27
28		1.09 B	49	4.61		4.67	86	34.7		2.20	51	9.69	28
29		1.05 B	46	4.17						2.24	48	9.29	29
30		1.05 B	43	3.90						3.43	72	21.3	30
31		1.05 B	42	3.81						5.19	104	46.6	31
TOTAL		36.64		227.71		206.39		12 429.63		76.56		412.71	TOTAL
MEAN		1.18		7.35		7.37		444		2.47		13.3	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.38	58	21.9		1.68	14	2.03		1.17	41	4.14	1
2		3.95	43	14.7		1.61	14	1.95		1.05	38	3.45	2
3		3.31	38	10.9		1.48	13	1.66		1.09	36	3.39	3
4		2.99	36	9.30		1.47	12	1.52		1.40	58	7.02	4
5		3.01	34	8.84	14.0	1.48	12 S	1.53		1.68	77	11.2	5
6		2.71	32	7.49	14.0	1.61	9 S	1.25		1.29	42	4.68	6
7		2.32	31	6.21		1.47	10	1.27		1.04	38	3.41	7
8		2.09	30	5.42		1.39	10	1.20		0.960	37	3.07	8
9		2.01	30	5.21		1.34	9	1.04		1.10	45	4.28	9
10		2.00	29	5.01		1.80	28	4.35	18.0	1.11	73 S	7.00	10
11		1.92	29	4.81		6.29	141	76.6		1.96	143	24.2	11
12		1.93	28	4.67		8.85	392	300		1.79	82	12.7	12
13		1.81	29	4.54		5.13	191	84.7		1.41	65	7.92	13
14		2.58	55	12.3		3.53	103	31.4	21.0	1.34	65 S	7.53	14
15		3.81	83	27.3		3.02	55	14.4		1.27	67	7.35	15
16		2.81	48	11.7	11.0	3.11	36 S	9.67	26.0	1.20	70 S	7.26	16
17		2.36	30	6.12		2.65	54	12.4		1.11	51	4.89	17
18		2.16	17	3.17		2.15	37	6.87		0.917	34	2.69	18
19		2.00	10	1.73		1.88	36	5.85		0.855	33	2.48	19
20		1.85	7	1.12		1.74	35	5.26		0.851	34	2.50	20
21		1.74	6	0.90		1.56	35	4.72		0.981	50	4.24	21
22		1.64	6	0.85		1.47	35	4.45		2.09	148	26.7	22
23	8.0	1.81	8 S	1.25		1.36	36	4.23		5.06	266	116	23
24		2.13	23	4.23		1.34	34	3.94		2.80	122	29.5	24
25		2.19	18	3.41		1.33	35	4.02		1.81	84	13.1	25
26		1.98	11	1.88		1.21	54	5.65	19.0	1.36	73 S	8.58	26
27		2.00	14	2.42		1.17	65	6.57		1.10	67	6.37	27
28		1.90	16	2.63		1.42	77	9.45	20.0	0.968	62 S	5.19	28
29		1.87	17	2.75		1.43	70	8.65		0.810	62	4.34	29
30		1.97	17	2.89		1.45	47	5.89	24.0	1.01	48 S	4.19	30
31						1.33	43	4.94					31
TOTAL		71.23		195.65		68.75		627.46		42.582		349.33	TOTAL
MEAN		2.37		6.52		2.22		20.2		1.42		11.6	MEAN

ONTARIO

NUMBER RIVER AT ELDER MILLS - STATION NO. 02NC025

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.40	40	4.84		1.31	41	4.64		1.68	78	11.3	1
2		1.33	60	6.89		1.10	38	3.61		1.57	77	10.4	2
3		1.09	54	5.09		1.01	38	2.97		1.55	105	14.1	3
4		3.71	245	78.5		1.09	68	6.03	21.0	3.24	273 S	76.4	4
5		21.1	1 390	2 530		3.00	126	32.7		7.11	506	311	5
6	24.0	13.8	604 S	720		2.50	78	16.8		4.16	245	88.1	6
7		6.18	379	202		1.70	36	5.29		3.22	146	40.6	7
8		3.66	261	82.5		1.30	26	2.92		2.81	94	22.8	8
9		2.32	182	36.5		3.04	121	31.8		2.44	56	11.8	9
10		1.66	126	18.1		2.31	73	14.6		2.01	30	5.21	10
11		1.26	94	10.2		1.85	57	9.11		1.55	13	1.74	11
12		1.11	75	7.19		1.71	50	7.39		1.41	9	1.10	12
13		1.02	61	5.38		1.33	42	4.83		1.38	9	1.07	13
14	24.0	0.895	48 S	3.71		1.15	42	4.17	21.0	1.27	8 S	0.88	14
15		0.800	44	3.04		1.61	84	11.7		1.14	6	0.59	15
16		0.771	41	2.73		2.04	61	10.8		1.15	8	0.79	16
17		0.760	40	2.63		1.70	40	5.88		1.18	10	1.02	17
18		0.724	41	2.56		1.22	30	3.16		1.19	10	1.03	18
19		0.730	43	2.71		1.08	25	2.33		1.18	10	1.02	19
20		0.919	50	3.97		0.924	22	1.76		1.20	10	1.04	20
21		0.882	36	2.74		0.840	18	1.31	20.0	1.25	11 S	1.19	21
22		0.825	25	1.78	25.0	0.873	13 S	0.98		1.64	21	2.98	22
23		0.779	21	1.41	23.0	0.779	14 S	0.94	11.5	1.89	18 S	2.94	23
24	19.0	0.708	21 S	1.28		0.892	32	2.47		1.68	12	1.74	24
25		0.707	21	1.28		0.883	32	2.44		1.60 E	12	1.66	25
26		0.670	22	1.27		0.792	27	1.85		1.58 E	12	1.64	26
27		0.737	23	1.46		0.774	27	1.81	16.0	1.58 E	12 S	1.64	27
28		1.24	57	6.11		1.14	55	5.42		1.58	12	1.64	28
29		3.96	194	66.4		1.95	113	19.0		1.46	11	1.39	29
30		2.88	78	19.4		2.18	129	24.3		1.39	11	1.32	30
31		1.80	47	7.31	21.5	1.96	90 S	15.2					31
TOTAL		80.427		3 838.98		46.037		258.21		58.09		620.13	TOTAL
MEAN		2.59		124		1.48		8.33		1.94		20.7	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.44	12	1.49		2.47	22	4.69		2.91	20	5.03	1
2		1.63	15	2.11		2.30	20	3.97		3.18	24	6.59	2
3		1.76	15	2.28		2.17	20	3.75		3.47	27	8.09	3
4		1.61	13	1.81		2.00	19	3.28		3.05	22	5.80	4
5		1.54	11	1.46		1.94	19	3.18		2.68	20	4.63	5
6		2.61	24	5.41		1.95	18	3.03		2.66 B	19	4.37	6
7		3.83	36	11.9		1.96	16	2.71		2.41	18	3.75	7
8		2.76	23	5.48		1.99	16	2.75		2.26	17	3.32	8
9	9.0	2.19	17 S	3.22	4.5	1.87	15 S	2.42		1.95	16	2.70	9
10		1.84	15	2.38		1.83	14	2.21		1.85	16	2.56	10
11		1.65	13	1.85		1.79	12	1.86		1.78	15	2.31	11
12		1.53	11	1.45		1.87	13	2.10		2.23	14	2.70	12
13		1.48	9	1.15		1.78	13	2.00		2.33	14	2.82	13
14		1.41	8	0.97		1.68	12	1.74		2.34	13	2.63	14
15		1.51	8	1.04		1.69	13	1.90		2.24	11	2.13	15
16	11.0	1.86	9 S	1.45		2.68	42	9.58	0.1	2.11 B	10 S	1.82	16
17		1.78	7	1.08		5.82	175	88.0		2.00 B	10	1.73	17
18		2.28	13	2.56		4.60	67	26.6		1.95 B	10	1.68	18
19	8.0	3.41	25 S	7.37	8.0	3.57	29 S	8.94		2.15 B	10	1.86	19
20		2.59	15	3.36		6.02	198	103		2.02 B	10	1.75	20
21		2.18	11	2.07		7.63	183	121		4.10 B	10	3.54	21
22		2.43	19	3.99		5.29	63	28.8		2.81	12	2.91	22
23	6.0	3.45	24 S	7.15		3.88	35	11.7		2.54	12	2.63	23
24		4.14	24	8.58		3.17	30	8.22		2.47	11	2.35	24
25		3.38	17	4.96		2.87	24	5.95		2.35 B	11	2.23	25
26		3.15	14	3.81		2.60	27	6.07		2.18 B	11	2.07	26
27		3.75	70	22.7		4.71	139	56.6		2.12 B	11	2.01	27
28	8.0	6.81	261 S	154		6.14	118	62.6		2.11	11	2.01	28
29		4.66	88	35.4		4.47	40	15.4		2.21	10	1.91	29
30	8.0	3.56	30 S	9.23	1.0	3.41	23 S	6.78		2.07	10	1.79	30
31		2.89	25	6.24						2.04	10	1.76	31
TOTAL		81.11		317.95		96.11		600.83		74.57		93.48	TOTAL
MEAN		2.62		10.3		3.20		20.0		2.41		3.02	MEAN

SUMMARY FOR THE YEAR 1981

TOTAL SUSPENDED SEDIMENT LOAD 19 972.07 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	246	
MAXIMUM DAILY	1 600	ON FEB 19
MINIMUM DAILY	6	ON APR 21

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	54.7	
MAXIMUM DAILY	4 700	ON FEB 19
MINIMUM DAILY	0.59	ON SEP 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 48 39 N
LONG 79 37 38 W
DRAINAGE AREA 303 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.568 B				0.492 B				4.46			1
2		0.518 B				0.478 B				3.15			2
3		0.492 B				0.460 B				2.14 B			3
4		0.464 B				0.444 B				1.89 B			4
5		0.448 B				0.425 B				1.75 B			5
6		0.435 B				0.412 B				1.63 B			6
7		0.418 B				0.402 B				1.56 B			7
8		0.398 B				0.396 B				1.49 B			8
9		0.384 B				0.385 B				1.76			9
10		0.376 B				0.379 B				1.91			10
11		0.368 B				1.01 B				1.79			11
12		0.359 B				1.19 B				1.74			12
13		0.354 B				1.28 B				1.80			13
14		0.348 B				1.38 B				1.58			14
15		0.342 B				1.43 B				1.46 B			15
16		0.338 B				1.68 B				1.33 B			16
17		0.334 B				3.22 B				1.24 B			17
18		0.330 B				6.25 B				1.13 B			18
19		0.323 B				10.1 B				1.09			19
20		0.319 B				11.9 B				1.01			20
21		0.316 B				10.3				0.999			21
22		0.312 B				9.43				1.11			22
23		0.309 B				16.8				1.53			23
24		0.307 B				12.7				1.92			24
25		0.319 B				7.40				2.08			25
26		0.388 B				5.19				1.99			26
27		0.468 B				3.99				2.02			27
28		0.462 B				4.86				2.28			28
29		0.459 B								2.78			29
30		0.444 B								4.31			30
31		0.439 B								4.16			31
TOTAL		12.135				114.383				61.089			TOTAL
MEAN		0.391				4.09				1.97			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2.68				0.990				0.424			1
2		2.03				0.830				0.379			2
3		1.64				0.756				0.406			3
4		1.52				0.690				0.904			4
5		1.42				0.655				0.699			5
6		1.24				0.679				0.510			6
7		1.11				0.606				0.431			7
8		1.02				0.577				0.400			8
9		1.75				0.554				0.415			9
10		1.60				0.858				0.402			10
11		1.28				4.74				0.419			11
12		1.13				5.17				0.363			12
13		0.989				2.73				0.358			13
14		2.18				1.82				0.367			14
15		2.36				1.51				0.435			15
16		1.60				1.44				0.411			16
17		1.45				1.26				0.385			17
18		1.36				1.05				0.341			18
19		1.17				0.913				0.301			19
20		1.06				0.807				0.274			20
21		0.930				0.728				0.286			21
22		0.876				0.657				0.399			22
23		0.928				0.621				0.559			23
24		1.03				0.591				0.346			24
25		0.959				0.599				0.260			25
26		0.855				0.587				0.217			26
27		0.763				0.544				0.177			27
28		1.00				0.572				0.157			28
29		1.53				0.532				0.139			29
30		1.28				0.498				0.135			30
31						0.464							31
TOTAL		40.740				35.028				11.299			TOTAL
MEAN		1.36				1.13				0.376			MEAN

ONTARIO

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.152				0.075				0.403			1
2		0.145				0.059				0.613			2
3		0.125				0.069				0.347			3
4		0.133				0.160				2.29			4
5		0.122				0.343				2.05			5
6		0.117				0.204				0.863			6
7		0.106				0.134				0.519			7
8		0.090				0.147				0.455			8
9		0.078				0.114				0.398			9
10		0.066				0.111				0.327			10
11		0.064				0.099				0.285			11
12		0.066				0.083				0.244			12
13		0.056				0.089				0.211			13
14		0.059				0.085				0.189			14
15		0.052				0.258				0.177			15
16		0.047				0.273				0.155			16
17		0.051				0.160				0.153			17
18		0.051				0.120				0.151			18
19		0.063				0.105				0.156			19
20		0.046				0.093				0.171			20
21		0.048				0.079				0.212			21
22		0.044				0.068				0.247			22
23		0.032				0.075				0.213			23
24		0.031				0.078				0.184			24
25		0.026				0.067				0.163			25
26		0.036				0.065				0.246			26
27		0.052				0.062				0.663			27
28		0.163				0.306				0.530	4 S	0.18	28
29		0.333				0.680				0.367	3	0.10	29
30		0.156				0.414				0.305	3	0.08	30
31		0.098				0.260							31
TOTAL		2.708				4.935				13.287			TOTAL
MEAN		0.087				0.159				0.443			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.507	28 S	1.23		0.570				1.61			1
2		0.876	6 S	0.45		0.523				3.44			2
3		0.860	9	0.67		0.491				2.44			3
4		0.638	7	0.39		0.466				1.74			4
5		0.521	7	0.32		0.490				1.33			5
6		0.660	22 S	1.25		0.947				1.12			6
7		1.07	11	1.02		1.09				1.03			7
8		0.909	7	0.55		0.855				1.28			8
9		0.664	5	0.29		0.726				1.12			9
10		0.533	3	0.14		0.608				0.885	B		10
11		0.457	2	0.08		0.557				0.795	B		11
12		0.413	1	0.04		0.519				0.740	B		12
13		0.356	1	0.03		0.491				0.700	B		13
14		0.342	1 S	0.03		0.529				0.668	B		14
15		0.367				0.463				0.642	B		15
16		0.394				0.389				0.605	B		16
17		0.368				0.428				0.594	B		17
18		0.810				0.420				0.575	B		18
19		1.72				0.479				0.555	B		19
20		1.64				1.93				0.540	B		20
21		1.15				2.44				0.524	B		21
22		1.02				1.69				0.516	B		22
23		1.13				1.14				0.518	B		23
24		1.09				0.907				0.555	B		24
25		1.05				0.788				0.538	B		25
26		0.990				1.12				0.520	B		26
27		0.877				3.94				0.508	B		27
28		0.817				2.32				0.496	B		28
29		0.744				1.56				0.488	B		29
30		0.665				1.21				0.480	B		30
31		0.619								0.478	B		31
TOTAL		24.257				30.086				28.030			TOTAL
MEAN		0.782				1.00				0.904			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 57 44 N
LONG 81 30 55 W
DRAINAGE AREA 54.9 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES													METHOD OF ANALYSIS	TYPE OF SAMPLER
				0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000		
OCT 14	12:00	0.484	1						1	3	6	11	16	25	43	100	SNNW	SCOOP

ONTARIO

NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE - STATION NO. 02EA010

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.17 B	11	1.11		0.870 B	11	0.83		7.30 B	18	11.4	1
2		1.15 B	11	1.09		0.860 B	11	0.82	0.3	5.60 B	18 S	8.71	2
3		1.14 B	11	1.08		0.860 B	12	0.89		4.40 B	17	6.46	3
4		1.13 B	11	1.07		0.850 B	11	0.81		3.90 B	18	6.07	4
5	0.1	1.13 B	11 S	1.07		0.840 B	11	0.80		3.50 B	18	5.44	5
6		1.12 B	12	1.16		0.840 B	10	0.73		3.10 B	18	4.82	6
7		1.11 B	19	1.82		0.830 B	12	0.86		2.65 B	16	3.66	7
8	0.1	1.10 B	24 S	2.28		0.820 B	11	0.78		2.50 B	15	3.24	8
9		1.09 B	23	2.17		0.820 B	11	0.78		2.35 B	12	2.44	9
10		1.09 B	20	1.88		0.830 B	11	0.79		2.23 B	10	1.93	10
11		1.08 B	20	1.87		0.870 B	11	0.83					
12		1.07 B	20	1.85		0.940 B	11	0.89		2.10 B	10	1.81	11
13		1.05 B	17	1.54	0.2	1.47 B	11 S	1.40		2.00 B	9	1.56	12
14		1.04 B	16	1.44		1.65 B	11	1.57		1.90 B	8	1.31	13
15		1.03 B	14	1.25		1.70 B	10	1.47		1.81 B	8	1.25	14
16		1.02 B	13	1.15		1.66 B	9	1.29		1.75 B	7	1.06	15
17		1.02 B	12	1.06		1.80 B	8	1.24		1.70 B	7	1.03	16
18		1.01 B	11	0.96	0.1	2.20 B	7 S	1.33		1.67 B	7	1.01	17
19		1.00 B	11	0.95	0.1	3.10	6 S	1.61		1.62 B	7	0.98	18
20		0.990 B	11	0.94	0.1	4.25	5 S	1.84	0.5	1.59 B	6	0.82	19
21		0.980 B	12	1.02	0.1	6.25	26 S	14.0		1.58 B	6 S	0.82	20
22		0.960 B	11	0.91	0.1	8.39	59 S	42.8		1.53 B	6	0.79	21
23		0.950 B	10	0.82	0.1	13.8	28 S	33.4		1.51 B	6	0.78	22
24		0.940 B	10	0.81	0.3	24.3	34 S	71.4		1.49 B	6	0.77	23
25		0.930 B	11	0.88	0.3	28.6	24 S	59.3		1.48 B	8	1.02	24
26		0.920 B	10	0.79	0.3	21.6	17 S	31.7		1.50 B	11	1.43	25
27		0.910 B	10	0.79	0.3	14.6	17 S	21.4		1.57 B	14	1.90	26
28		0.900 B	10	0.78		10.3	19	16.9		1.63 B	15	2.11	27
29		0.900 B	10	0.78						1.90 B	17	2.79	28
30		0.880 B	11	0.84						2.40 B	30	6.22	29
31		0.880 B	11	0.84					1.0	8.04	94 S	65.3	30
TOTAL		31.690		37.00		155.900		312.46	1.0	19.1	123 S	203	31
MEAN		1.02		1.19		5.57		11.2		97.40		351.93	TOTAL
										3.14		11.4	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.0	21.1	85 S	155		4.56	14	5.52		2.13	11	2.02	1
2	1.5	21.3	88 S	162		3.86	12	4.00		1.97	8	1.36	2
3		20.6	77	137		3.35	12	3.47		2.06	9	1.60	3
4	3.8	22.4	101 S	195		3.06	11	2.91		2.03	12	2.10	4
5		30.3	159	416		2.82	10	2.44		1.86	11	1.77	5
6		24.7	85	181									
7	2.5	13.4	49 S	56.7		2.79	10	2.41		1.89	10	1.63	6
8		8.78	50	37.9		2.60	9	2.02		2.22	13	2.49	7
9	4.5	14.8	97 S	124		2.42	9	1.88		2.03	14	2.46	8
10		18.9	103	168		2.24	7	1.35		1.95	9	1.52	9
11	5.0	12.7	39 S	42.8		2.29	8	1.58		1.98	11	1.88	10
12		8.69	21	15.8	6.5	5.22	29 S	13.1		1.59	10	1.37	11
13		6.22	16	8.60		12.1	89	93.0		1.51	10	1.30	12
14		5.67	19	9.31	6.0	11.7	69 S	69.8		1.82	12	1.89	13
15	2.5	6.26	15 S	8.11	6.0	7.97	52 S	35.8		1.72	12	1.78	14
16		5.10	11	4.85		5.89	51	26.0		1.65	8	1.14	15
17		4.53	9	3.52		5.42	49	22.9					
18		4.28	10	3.70		4.65	40	16.1		3.66	13	4.11	16
19		3.83	10	3.31		3.97	34	11.7		4.60	39	15.5	17
20		3.56	9	2.77		3.46	30	8.97		3.38	33	9.64	18
21		3.28	9	2.55		3.07	27	7.16		2.63	20	4.54	19
22		2.95	8	2.04		2.85	21	5.17		2.14	11	2.03	20
23		2.84	8	1.96		2.65	17	3.89		1.83	9	1.42	21
24		2.88	9	2.24		2.43	14	2.94	15.0	2.63	12	2.73	22
25	3.0	3.01	9 S	2.34		2.28	12	2.36		6.51	58 S	32.6	23
26		3.12	8	2.16		2.62	20	4.53		5.39	60	27.9	24
27		3.04	7	1.84		3.27	20	5.65		4.78	55	22.7	25
28		2.93	6	1.52		3.08	14	3.73		4.28	50	18.5	26
29		4.34	15	5.62		2.78	12	2.84	12.0	3.59	42	13.0	27
30	6.2	5.54	23 S	11.0		2.48	11	2.36		2.91	32 S	8.05	28
31						2.51	15	3.25		2.38	25	5.14	29
TOTAL		291.05		1 768.64		2.48	15	3.21		2.07	19	3.40	30
MEAN		9.70		59.0		122.83		372.04		81.19		197.57	31
						3.96		12.0		2.71		6.59	TOTAL MEAN

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		2.05	16	2.83		1.46	15	1.89		3.96	36	12.3	1
2		1.87	13	2.10		2.10	32	5.81		4.99	39	16.8	2
3		1.77	11	1.68		1.15	21	2.09		5.09	36	15.8	3
4		1.70	11	1.62		1.08	14	1.31		5.33	22	10.1	4
5		14.1	101	123	18.0	1.78	21 S	3.23	17.0	10.5	30 S	27.2	5
6		10.5	99	89.8									
7		5.62	60	29.1		2.01	29	5.04	17.0	8.48	16 S	11.7	6
8		3.84	42	13.9		1.68	22	3.19	17.0	6.19	10 S	5.35	7
9		2.88	26	6.47		2.16	26	4.85	17.0	5.19	10 S	4.48	8
10	19.3	2.41	19 S	3.96		3.54	42	12.8		4.46	11 S	4.24	9
11		2.00	19	3.28		3.12	34	9.17		9.50	36	29.5	10
12		1.73	19	2.84		2.54	23	5.05	14.0	18.0	55 S	85.5	11
13	19.5	1.60	19 S	2.63		2.05	19	3.37	15.0	17.1	35 S	51.7	12
14		1.70	22	3.23		1.71	16	2.36		11.8	25	25.5	13
15		1.57	20	2.71		1.46	16	2.02		7.12	13	8.00	14
16		1.33	18	2.07		1.41	16	1.95		4.99	10	4.31	15
17		1.35	19	2.22		1.53	18	2.38		3.87	11	3.68	16
18		1.82	23	3.62		1.34	17	1.97		3.29	11	3.13	17
19		1.72	20	2.97		1.14	15	1.48		2.80	11	2.66	18
20		1.43	15	1.85		0.987	14	1.19		2.51	11	2.39	19
21	18.0	1.63	17 S	2.39		0.915	12	0.95		2.71	13	3.04	20
22		1.68	24	3.48		0.843	11	0.80		2.63	13	2.95	21
23		1.39	19	2.28		0.771	11	0.73		2.41	11	2.29	22
24		1.21	16	1.67		0.736	11	0.70		2.22	11	2.11	23
25		1.07	14	1.29		0.878	13	0.99		2.01	11	1.91	24
26		1.61	23	3.20		0.991	15	1.28		1.90	11	1.81	25
27		2.92	42	10.6		0.897	12	0.93		1.86	11	1.77	26
28		2.34	28	5.66		0.812	12	0.84		4.37	22	8.31	27
29		2.20	27	5.13		0.767	11	0.73		6.71	39	22.6	28
30		2.07	19	3.40		1.50	16	2.07		5.01	21	9.09	29
31		1.76	14	2.13		3.78	37	12.1		3.98	13	4.47	30
						4.26	40	14.7					31
TOTAL		82.87		343.11		51.397		107.97		170.98		384.69	TOTAL
MEAN		2.67		11.1		1.66		3.48		5.70		12.8	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		3.46	12	3.59						2.51	13	2.82	1
2		4.49	22	8.53	6.0	2.58	10	2.23		2.65	12	2.75	2
3		5.43	32	15.0		2.48	11 S	2.36		3.21	21	5.82	3
4		5.08	24	10.5		2.36	11	2.24		3.34	19	5.48	4
5		4.29	15	5.56		2.28	10	1.97		3.02	14	3.65	5
6		4.44	15	5.75		2.36	10	2.04					
7		10.5	33	29.9		2.25	11	2.14		2.44	15	3.16	6
8	6.6	16.7	40 S	57.7		2.16	11	2.05		2.42	12	2.51	7
9		14.4	35	43.5		2.10	11	2.00		2.42	11	2.30	8
10		8.33	34	24.5		1.99	12	2.06		2.19	12	2.27	9
11		5.66	33	16.1		1.97	12	2.04		2.02	11	1.92	10
12		4.50	31	12.1		1.92	11	1.82		2.03	9	1.58	11
13		3.81	29	9.55		1.97	11	1.87		2.00	9	1.56	12
14	6.0	3.39	24 S	7.03		1.90	11	1.81		1.94	9	1.51	13
15		3.29	18	5.12		1.84	12	1.91		1.90	10	1.64	14
16		3.57	15	4.63		1.83	11	1.74		1.90	10	1.64	15
17		3.47	14	4.20		1.99	12	2.06		1.84	10	1.59	16
18		5.20	31	13.9	3.2	2.62	15 S	3.40		1.62	10	1.40	17
19		10.4	38	34.1		2.66	19	4.37		1.56 B	10	1.35	18
20	4.5	8.99	14 S	10.9		2.54	15	3.29		1.53 B	10	1.32	19
21		6.81	11	6.47		2.50	11	2.38		1.49 B	10	1.29	20
22		5.41	11	5.14		2.36	11	2.24		1.48 B	11	1.41	21
23		4.56	11	4.33		1.67	11	1.59		1.48 B	11	1.41	22
24		4.08	11	3.88		2.04	11	1.94		1.48 B	11	1.41	23
25		3.72	11	3.54		1.95	11	1.85		1.48 B	10	1.28	24
26		3.45	11	3.28		1.92	10	1.66		1.47 B	9	1.14	25
27		3.26	11	3.10		2.42	14	2.93		1.45 B	10	1.25	26
28		3.07	11	2.92		3.08	23	6.12		1.43 B	10	1.24	27
29		2.88	12	2.99		2.98	20	5.15		1.43 B	11	1.36	28
30		2.78	10	2.40		2.58	14	3.12		1.43 B	10	1.24	29
31		2.70	10	2.33						1.44 B	10	1.24	30
										1.44 B	10	1.24	31
TOTAL		172.12		362.54		67.66		78.42		60.04		61.78	TOTAL
MEAN		5.55		11.7		2.26		2.48		1.94		1.99	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	37	
MAXIMUM DAILY	159	ON APR 05
MINIMUM DAILY	5	ON FEB 20

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	12.0	
MAXIMUM DAILY	416	ON APR 05
MINIMUM DAILY	0.70	ON AUG 23

TOTAL SUSPENDED SEDIMENT LOAD 4 374.15 t

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 42 12 N
LONG 79 18 33 W
DRAINAGE AREA 149 km^2
NATURAL FLOW

ONTARIO

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.003	6	0		0.003	61	0.02		0.031	8	0.02	1
2		0.003	13	0	1.0	0.004	40 S	0.01	2.0	0.024	7 S	0.01	2
3	0.5	0.003	43 S	0.01		0.005	33	0.01		0.020	10	0.02	3
4		0.003	46	0.01		0.005	31	0.01		0.016	15	0.02	4
5		0.003	45	0.01	1.0	0.004	29 S	0.01	2.5	0.016	19 S	0.03	5
6	1.5	0.003	53 S	0.01		0.004	23	0.01		0.014	17	0.02	6
7		0.003	52	0.01	1.0	0.003	18 S	0	2.5	0.012	13 S	0.01	7
8	1.0	0.003	57 S	0.01		0.003	14	0		0.013	16	0.02	8
9		0.003	58	0.02	1.5	0.004	22 S	0.01	2.5	0.013	22 S	0.02	9
10	1.0	0.003	56 S	0.01		0.006	22	0.01		0.015	23	0.03	10
11		0.003	55	0.01		0.085	45	0.33		0.014	21	0.03	11
12		0.002	54	0.01		0.045	18	0.07	2.0	0.014	22 S	0.03	12
13	0.5	0.003	54 S	0.01	1.0	0.031	12 S	0.03		0.013	23	0.03	13
14		0.003	56	0.01		0.022	10	0.02	2.0	0.010	25 S	0.02	14
15	0.5	0.003	58 S	0.02		0.019	10	0.02		0.010	22	0.02	15
16		0.003	60	0.02	2.0	0.026	13 S	0.03	1.0	0.010	19 S	0.02	16
17	1.0	0.003	64 S	0.02	1.0	0.185	38 S	0.61		0.010	22	0.02	17
18		0.002	73	0.01	1.3	0.329 A	54 S	1.53		0.009	27	0.02	18
19	1.5	0.002	81 S	0.01	1.5	0.248	21 S	0.45	2.0	0.010	32 S	0.03	19
20		0.003	71	0.02	1.5	0.200	21 S	0.36		0.010	30	0.03	20
21		0.003	58	0.02	2.0	0.072	15 S	0.09		0.012	62	0.06	21
22	2.5	0.003	44 S	0.01		0.051	13	0.06		0.011	99	0.09	22
23		0.003	41	0.01	2.8	0.191	59 S	0.97	4.0	0.011	90 S	0.09	23
24	2.5	0.003	44 S	0.01	2.5	0.049	8 S	0.03		0.010	69	0.06	24
25		0.002	37	0.01		0.037	16	0.05		0.009	46	0.04	25
26	3.0	0.005	32 S	0.01	4.5	0.031	17 S	0.05	6.0	0.011	27 S	0.03	26
27	2.0	0.007	10 S	0.01		0.029	10	0.03		0.013	21	0.02	27
28		0.007	7	0		0.072	26	0.16	6.0	0.009	18 S	0.01	28
29	1.5	0.007	8 S	0						0.007	16	0.01	29
30		0.005	13	0.01					8.5	0.040	56 S	0.19	30
31	1.5	0.004	49 S	0.02						0.025	11	0.02	31
TOTAL		0.106		0.34		1.763		4.98		0.442		1.07	TOTAL
MEAN		0.003		0.01		0.063		0.18		0.014		0.03	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.027	22	0.05	5.0	0.013	63 S	0.07	11.0	0.004	46 S	0.02	1
2	9.0	0.017	10 S	0.01		0.010	75	0.06		0.005	34	0.01	2
3		0.014	8	0.01		0.009	87	0.07		0.012	89	0.09	3
4	9.0	0.018	17 S	0.03	6.0	0.008	99 S	0.07	12.5	0.007	64 S	0.04	4
5		0.013	9	0.01		0.007	99	0.06		0.006	65	0.03	5
6	6.0	0.010	7 S	0.01	6.0	0.007	96 S	0.06	13.5	0.006	68 S	0.04	6
7		0.009	5	0		0.007	92	0.06		0.004	75	0.03	7
8	6.0	0.008	10 S	0.01		0.007	87	0.05	12.5	0.005	79 S	0.03	8
9	7.5	0.008	60 S	0.04	6.0	0.006	84 S	0.04		0.006	65	0.03	9
10		0.008	63	0.04		0.012	102	0.11	12.0	0.010	73 S	0.06	10
11		0.010	150	0.13	5.0	0.027	23 S	0.05		0.008	77	0.05	11
12		0.006	136	0.07		0.013	43	0.05		0.007	76	0.05	12
13	6.5	0.007	130 S	0.08	6.0	0.010	103 S	0.09	13.0	0.018	77 S	0.12	13
14	7.0	0.007	148 S	0.98		0.011	115	0.11		0.018	99	0.15	14
15		0.017	73	0.11	5.5	0.017	96 S	0.14	15.5	0.006	87 S	0.05	15
16	9.0	0.013	63 S	0.07		0.011	63	0.06		0.013	77	0.09	16
17	8.5	0.026	40 S	0.09		0.008	101	0.07	14.5	0.009	48 S	0.04	17
18		0.016	7	0.01	6.0	0.007	129 S	0.08		0.007	49	0.03	18
19		0.012	7	0.01		0.008	124	0.09	13.5	0.006	47 S	0.02	19
20		0.011	9	0.01	9.0	0.008	132 S	0.09		0.004	41	0.01	20
21		0.009	6	0		0.008	128	0.09		0.012	47	0.05	21
22		0.009	10	0.01	11.0	0.007	120 S	0.07	16.3	0.095	43 S	0.35	22
23		0.019	37	0.06		0.006	107	0.06		0.010	34	0.03	23
24		0.022	8	0.02		0.005	105	0.05	14.0	0.007	84 S	0.05	24
25		0.012	8	0.01	11.5	0.006	97 S	0.05		0.007	103	0.06	25
26		0.008	11	0.01		0.006	113	0.06	13.5	0.005	111 S	0.05	26
27		0.007	12	0.01	11.5	0.007	120 S	0.07		0.003	115	0.03	27
28		0.043	65	0.24		0.009	111	0.09		0.003	118	0.03	28
29	7.0	0.019	55 S	0.09	12.0	0.008	90 S	0.06	15.0	0.004	120 S	0.04	29
30		0.016	52	0.07		0.008	78	0.05		0.004	110	0.04	30
31						0.005	65	0.03					31
TOTAL		0.491		2.29		0.281		2.16		0.311		1.72	TOTAL
MEAN		0.016		0.08		0.009		0.07		0.010		0.06	MEAN

ONTARIO

D.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.007	102	0.06	15.5	0.003	110 S	0.03	17.0	0.011	38 S	0.04	1
2		0.006	95	0.05		0.003	105	0.03		0.017	40	0.06	2
3		0.004	85	0.03	14.5	0.006	85 S	0.04	19.0	0.127	236 S	2.59	3
4		0.034	98	0.29		0.013	58	0.07		0.615	583	31.0	4
5		0.036	72	0.22	17.5	0.013	17 S	0.02	18.5	0.018	60 S	0.09	5
6	16.0	0.005	29 S	0.01		0.004	34	0.01		0.030	50	0.13	6
7		0.005	24	0.01	16.0	0.004	75 S	0.03		0.026	67	0.15	7
8		0.005	46	0.02		0.062	102	0.55		0.014	64	0.08	8
9	18.5	0.006	75 S	0.04		0.012	72	0.07		0.011	62	0.06	9
10		0.004	81	0.03		0.011	68	0.06	15.0	0.010	54 S	0.05	10
11	16.5	0.004	79 S	0.03	17.5	0.013	45 S	0.05		0.009	43	0.03	11
12		0.004	79	0.03		0.005	47	0.02		0.009	37	0.03	12
13	16.0	0.005	78 S	0.03	16.0	0.005	45 S	0.02		0.007	30	0.02	13
14		0.005	73	0.03		0.032	51	0.14		0.007	24	0.01	14
15	17.0	0.005	69 S	0.03	18.0	0.101	72 S	0.63		0.009	17	0.01	15
16		0.005	68	0.03		0.007	81	0.05	13.5	0.009	10 S	0.01	16
17		0.004	69	0.02	15.5	0.005	76 S	0.03		0.009	18	0.01	17
18	17.0	0.004	69 S	0.02		0.005	73	0.03	13.5	0.009	32 S	0.02	18
19		0.005	88	0.04	14.5	0.005	75 S	0.03		0.008	46	0.03	19
20	17.5	0.008	79 S	0.05		0.005	67	0.03		0.005	59	0.03	20
21		0.004	68	0.02		0.005	53	0.02	12.5	0.018	85 S	0.13	21
22		0.003	67	0.02	15.5	0.005	40 S	0.02	12.0	0.024	20 S	0.04	22
23	15.0	0.003	60 S	0.02		0.004	33	0.01		0.011	4	0	23
24		0.004	66	0.02	16.0	0.004	42 S	0.01		0.010	5	0	24
25	15.5	0.003	74 S	0.02		0.005	41	0.02	13.0	0.013	20 S	0.02	25
26		0.003	73	0.02	15.5	0.004	41 S	0.01		0.019	30	0.05	26
27	13.5	0.003	68 S	0.02	15.0	0.004	31 S	0.01		0.009	24	0.02	27
28	13.3	0.140	94 S	1.14	16.5	0.122	853 S	8.99	12.0	0.009	20 S	0.02	28
29	13.0	0.016	13 S	0.02	17.8	0.026	52 S	0.12		0.010	17	0.01	29
30		0.004	49	0.02	19.0	0.023	19 S	0.04	11.0	0.009	16 S	0.01	30
31	13.0	0.003	87 S	0.02	18.0	0.013	17 S	0.02					31
TOTAL		0.347		2.41		0.529		11.21		1.092		34.75	TOTAL
MEAN		0.011		0.08		0.017		0.36		0.036		1.16	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	9.5	0.110	56 S	0.53		0.021	2	0	4.0	0.021 E	9 S	0.02	1
2		0.018	15	0.02		0.019	2	0	5.0	0.032 E	53 S	0.15	2
3	10.0	0.011	13 S	0.01		0.019	4	0.01		0.017	37	0.05	3
4		0.009	11	0.01		0.017	5	0.01	3.0	0.014	35 S	0.04	4
5		0.010	9	0.01		0.016	5	0.01		0.013	31	0.03	5
6	11.0	0.133	193 S	2.22		0.017	4	0.01		0.011	29	0.03	6
7		0.021	9	0.02		0.013	3	0		0.011	31	0.03	7
8		0.015	5	0.01		0.011	4	0		0.012	36	0.04	8
9	9.5	0.013	3 S	0		0.011	4	0		0.009	41	0.03	9
10		0.009	3	0		0.012	5	0.01	4.0	0.009	44 S	0.03	10
11		0.007	3	0		0.011	4	0		0.008	42	0.03	11
12	9.0	0.007	3 S	0		0.011	5	0		0.006	38	0.02	12
13		0.008	2	0		0.010	5	0	4.0	0.006	38 S	0.02	13
14		0.009	3	0		0.009	6	0		0.008	41	0.03	14
15		0.016	5	0.01		0.008	5	0		0.008	35	0.02	15
16		0.010	4	0		0.015	9 S	0.01		0.008	24	0.02	16
17		0.007	4	0		0.017	10	0.01		0.008	13	0.01	17
18		0.068	24	0.14		0.014	10	0.01		0.008	6	0	18
19		0.015	5	0.01		0.014	10	0.01		0.007	4	0	19
20	7.0	0.013	2 S	0		0.090	34 S	0.26	3.0	0.005	5 S	0	20
21		0.033	25	0.07		0.033	13	0.04		0.005	3	0	21
22		0.149	56	0.72		0.021	13	0.02		0.006	3	0	22
23		0.052	8	0.04		0.018	11	0.02		0.006	3	0	23
24		0.022	6	0.01		0.016	6	0.01	3.5	0.007	3 S	0	24
25		0.018	5	0.01		0.014	3 S	0		0.006	4	0	25
26		0.020	3 S	0.01		0.015	5	0.01		0.006	4	0	26
27	9.0	0.289 E	83 S	2.07		0.028	30	0.07		0.006	3	0	27
28		0.054 E	25 S	0.12		0.016	17	0.02		0.006	5	0	28
29		0.032	6	0.02		0.014	16	0.02	4.5	0.007	4 S	0	29
30		0.025	3	0.01	5.0	0.013	13 S	0.01		0.008	5	0	30
31		0.022	3	0.01						0.007	4	0	31
TOTAL		1.225		6.08		0.543		0.57		0.291		0.60	TOTAL
MEAN		0.039		0.20		0.018		0.02		0.009		0.02	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	107	
MAXIMUM DAILY	853	ON AUG 28
MINIMUM DAILY	2	ON OCT 13

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.19	
MAXIMUM DAILY	31.0	ON SEP 04
MINIMUM DAILY	0	ON JAN 01

TOTAL SUSPENDED SEDIMENT LOAD 68.18 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 31 53 N
LONG 80 18 18 W
DRAINAGE AREA 2.51 km^2
NATURAL FLOW

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
AUG 28	13:40	0.123H	16.5	1 320 K	27	30	55	97	100							BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

SOUTH NATION RIVER AT CASSELMAN - STATION NO. 02LB013

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		5.90 B				3.56				98.6	67	571	1
2		5.89 B				3.65				81.0	44	308	2
3		5.87 B				3.69				54.2	25	117	3
4		5.85 B				3.74			1.0	35.2	14 S	42.6	4
5		5.83 B				3.85				32.4	10	28.0	5
6		5.82 B											
7		5.82 B				3.59			3.5	26.1	7 S	15.8	6
8		5.70 B				3.62				23.3	7	14.1	7
9		5.52 B				3.71				22.3	6	11.6	8
10		5.36 B				3.43			2.0	23.9	12 S	24.8	9
						3.10				26.0	11	24.7	10
11		5.14 B											
12		4.98 B				21.7			2.7	26.6	10 S	23.0	11
13		4.76 B				91.7				26.9	7	16.3	12
14		4.56 B				75.7			3.0	26.7	5 S	11.5	13
15		4.38 B				78.4				26.3	4	9.09	14
						69.0				24.4	4	8.43	15
16		4.18 B											
17		3.95 B				56.1			1.7	27.1	9 S	21.1	16
18		3.74 B				96.9				24.5	9	19.1	17
19		3.54 B				208				15.5	9	12.1	18
20		3.36 B				266				14.3	8	9.88	19
						376			1.0	13.6	8 S	9.40	20
21		3.18 B											
22		2.96 B				499	840 E	36 200		11.0	7	6.65	21
23		2.73 B				404	408 E	14 200	1.5	9.87	7 S	5.97	22
24		2.50 B				333	195 E	5 610	1.5	10.5	7 S	6.35	23
25		2.29 B			1.5	349	365 E	11 000		12.5	7	7.56	24
						282	200 E	4 870		14.5	6	7.52	25
26		2.12 B											
27		2.25				241	150 E	3 120	3.7	16.2	6 S	8.40	26
28		2.39				172	115 E	1 710	5.0	18.0	8 S	12.4	27
29		2.59				126	92 E	1 000		19.8	9	15.4	28
30		2.96								18.4	9	14.3	29
31		3.55							7.5	22.8	12 S	23.6	30
										46.8	23	93.0	31
TOTAL		129.67				3 781.44				849.27		1 488.65	TOTAL
MEAN		4.18				135				27.4		48.3	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	8.0	45.7	25 S	98.7		28.9				21.8			1
2		61.9	33	176		25.7				16.1			2
3	9.0	49.5	21 S	89.8		22.9				10.7			3
4		47.4	23	94.2		21.5				38.3			4
5		55.9	29	140		20.8				53.9			5
6	10.5	48.4	25 S	105		21.2				28.7			6
7		36.4	20	62.9		22.0				22.0			7
8	9.5	28.2	15 S	36.5		21.7				14.1			8
9		24.6	14	29.8		21.9				15.8			9
10	10.0	26.3	13 S	29.5		21.6				14.8			10
11		24.1	14	29.2		24.2				10.9			11
12		22.6	14	27.3		45.2				9.75			12
13	11.5	20.5	15 S	26.6		60.1				9.79			13
14		19.3	25	41.7		45.7 E				9.60			14
15		16.0	35	48.4		35.9 A				9.10			15
16	8.0	14.8	34 S	43.5		58.5				15.7			16
17		13.5	29	33.8		96.9				15.7			17
18		15.1	26	33.9		65.9				13.3			18
19		20.8	29	52.1		44.9				9.38			19
20		20.5	25	44.3		28.9				7.51			20
21		17.5	19	28.7		21.2				6.65			21
22		14.7	18	22.9		16.7				65.6			22
23		12.1	21	22.0		13.5				150			23
24		11.2	26	25.2		11.3				79.6			24
25		16.1	28	38.9		9.73				51.2			25
26		19.9	27	46.4		8.86				48.5			26
27		19.3	19	31.7		7.85				35.7			27
28		17.0	14	20.6		10.8				23.7			28
29		18.7	20	32.3		21.4				16.1			29
30		26.8	28	64.8		23.9				12.0			30
31						24.9							31
TOTAL		784.8		1 576.7		904.54				835.98			TOTAL
MEAN		26.2		52.6		29.2				27.9			MEAN

ONTARIO

SOUTH NATION RIVER AT CASSELMAN - STATION NO. 02LB013

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		11.2				1.01				3.34 A			1
2		13.1				1.04				2.91			2
3		12.5				1.62				2.53			3
4		32.1				1.66				2.37			4
5		56.5				29.8				3.58			5
6		21.8				23.6				4.13			6
7		11.2				10.1				2.79			7
8		7.01				5.80				5.56			8
9		5.28				5.92				48.5			9
10		4.68				8.95				75.3			10
11		4.08				22.2				122			11
12		3.44				41.1				91.5			12
13		3.39				24.2				74.3			13
14		3.59				15.6				58.1			14
15		2.69				31.8				42.2			15
16		2.43				109				29.4			16
17		1.94				82.2				20.5			17
18		1.99				52.3				15.7			18
19		4.14				35.7				12.9			19
20		3.49				24.9				12.0			20
21		7.41				19.4 A				10.1			21
22		7.18				11.6 A				9.64			22
23		5.57				9.03				24.6			23
24		2.73				7.55				106			24
25		2.33				7.00				85.1			25
26		2.00				6.53				61.1			26
27		1.87				6.19				69.2			27
28		2.23				3.85				76.0			28
29		1.76				5.01				54.3 E			29
30		1.44				5.91				39.0 E			30
31		1.16				4.42 A							31
TOTAL		242.23				614.99				1 184.65			TOTAL
MEAN		7.81				19.8				39.5			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		28.9				79.6				30.3			1
2		26.5				59.3				27.3			2
3		23.2 E				46.8				23.4 E			3
4		20.9				40.5				23.1 E			4
5		19.2				37.5				23.0 E			5
6		18.3				39.6				20.6 A			6
7		25.1				51.4				11.9			7
8		36.1				57.3				18.7			8
9		31.5 E				64.2				13.1			9
10		23.0 E				58.9				10.5			10
11		18.6				48.5				10.4			11
12		16.2 E				38.8 E				11.8			12
13		14.0 E				29.2 E				12.9			13
14		13.6				24.4				15.0			14
15		14.1 E				22.7				17.6			15
16		12.1 E				22.3				18.5			16
17		12.1 E				24.4				16.8			17
18		12.5 E				32.2				17.0			18
19		14.2				46.1				16.8			19
20		16.4 E				45.3				15.1			20
21		13.1				91.9				14.0			21
22		13.4				111				13.7			22
23		47.8				75.1				13.6			23
24		81.8				54.6				13.5			24
25		58.5				41.1				12.9			25
26		60.3				31.1				13.1			26
27		126				30.6				12.8			27
28		262				52.3				13.2			28
29		192				52.6				13.2			29
30		147				35.1				12.5			30
31		112								10.5			31
TOTAL		1 510.4				1 444.4				496.8			TOTAL
MEAN		48.7				48.1				16.0			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 19 01 N
LONG 75 05 32 W
DRAINAGE AREA 2 410 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

SOUTH NATION RIVER AT LEMIEUX - STATION NO. 02LB015

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1									2.0		41 S		1
2									3.0		36 S		2
3									3.5		31 S		3
4									3.0		30 S		4
5									2.0		28 S		5
6											26		6
7											25		7
8											24		8
9											23		9
10											22		10
11											22		11
12											21		12
13											20		13
14											19		14
15									2.0		18 S		15
16											18		16
17											18		17
18											18		18
19											18		19
20											18		20
21											18		21
22									2.0		18 S		22
23											18		23
24							188				18		24
25					1.0		168 S				23		25
26					2.5		95 S				40		26
27					2.0		61 S				57		27
28					2.0		46 S				62		28
29					2.5		39 S				59 S		29
30									3.0		57		30
31											88		31
TOTAL MEAN													TOTAL MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1			95										1
2	2.0		92 S										2
3			86										3
4			77										4
5	2.0		69 S										5
6			63										6
7			59										7
8			54										8
9			49										9
10			45										10
11			42										11
12	6.0		38 S										12
13			36										13
14			34										14
15			32										15
16			29										16
17			32										17
18			44										18
19	6.0		35 S										19
20			31										20
21			30										21
22			30										22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL MEAN													TOTAL MEAN

TYPE OF GAUGE - MANUAL
LOCATION - LAT 45 23 42 N
LONG 75 03 56 W

REGULATED FLOW

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		9.07 B				7.00 B				218	65	1 220	1
2		8.50 B				6.70 B				174	46	692	2
3		8.00 B				6.60 B				119	35	360	3
4		7.60 B				6.70 B				73.0	28 S	177	4
5		7.20 B				7.00 B				54.9	26	123	5
6		6.77 B				6.55 B				41.9	24	86.9	6
7		6.55 B				6.25 B			8.0	36.5	22 S	69.4	7
8		6.27 B				6.00 B				34.1	22	64.8	8
9		6.05 B				5.70 B			8.0	35.7	22 S	67.9	9
10		5.85 B				5.60 B				38.1	20	65.8	10
11		5.70 B				9.50 B				39.0	17 S	57.3	11
12		5.60 B				39.3 B				38.1	17	56.0	12
13		5.45 B				87.5 B				37.4	18	58.2	13
14		5.30 B				85.5 B			5.0	37.0	20 S	63.9	14
15		5.22 B				81.5 B				34.3	23	68.2	15
16		5.10 B				71.0 B			3.0	35.6	28 S	86.1	16
17		5.02 B				66.0 B				33.7	28	81.5	17
18		4.96 B				195 B			0.1	27.5	27 S	64.2	18
19		4.90 B				310 B				22.7	22	43.1	19
20		4.85 B				370 B	561 S	17 900		22.9	17	33.6	20
21		4.80 B				461 B	860 E	34 300	0.1	20.7	12 S	21.5	21
22		4.76 B				560 B	985 E	47 700		19.8	12	20.5	22
23		4.72 B				729 B	335 E	21 100	2.0	22.2	15 S	28.8	23
24		4.68 B			1.5	706	135 S	8 230		24.8	18	38.6	24
25		4.65 B			1.5	668	155 S	8 950	4.0	27.9	21 S	50.6	25
26		5.40 B				581	132 S	6 630		29.4	23	58.4	26
27		5.70 B				467	109 E	4 400	6.0	31.7	27 S	73.9	27
28		6.00 B				324	90 S	2 520		35.4	33	101	28
29		6.50 B								33.3	44	127	29
30		6.95 B								38.1	64	211	30
31		7.40 B							4.0	91.7	116 S	919	31
TOTAL		185.52				5 875.40				1 528.4		5 189.2	TOTAL
MEAN		5.98				210				49.3		167	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		96.0	130	1 080		37.6	53	172	21.0	36.5	48 S	151	1
2	8.0	116	127 S	1 270	12.0	31.4	43 S	117		25.7	45	99.9	2
3		103	151	1 340		26.3	39	88.6		19.0	43	70.6	3
4		90.3	122	952		22.2	38	72.9		35.5	66	202	4
5		118	166	1 690		19.4	38	63.7		118	193	1 970	5
6	10.0	101	119 S	1 040	16.0	17.0	38 S	55.8		84.0	119	864	6
7		71.9	79	491		15.7	36	48.8		62.0	74	396	7
8	10.0	49.3	52 S	221		14.1	35	42.6		39.1	47	159	8
9		40.7	45	158		12.6	34	37.0		32.7	56	158	9
10	11.0	44.3	45 S	172		11.5	35	34.8	20.0	38.5	59 S	196	10
11		39.5	45	154		15.7	38	51.5		30.3	56	147	11
12		34.7	44	132	14.0	49.4	61 S	260		23.7	56	115	12
13	11.0	30.5	43 S	113		118	145	1 480		22.3	56	108	13
14		29.9	42	109		91.4	82	648		22.2	55	105	14
15		36.4	42	132	14.0	62.6	49 S	265		20.1	54	93.8	15
16	8.0	31.8	42 S	115		64.5	62	346	24.0	22.0	60 S	114	16
17		27.7	44	105		140	174	2 100		37.4	77	249	17
18		28.7	47	117		121	104	1 090	24.0	41.0	68 S	241	18
19		32.2	49	136		77.7	65	436		29.8	61	157	19
20	8.0	32.5	44 S	124	14.0	45.9	50 S	198		23.4	57	115	20
21		29.0	38	95.2		30.3	45	118		18.8	52	84.5	21
22		25.6	33	73.0		25.1	45	97.6		60.3	441	2 300	22
23	8.0	22.6	29 S	56.6		20.8	45	80.9	19.0	285	642 S	15 800	23
24		21.6	29	54.1		17.6	44	66.9	19.0	209	182 S	3 290	24
25		29.8	42	108	19.0	14.8	43 S	55.0	21.0	133	91 S	1 050	25
26		33.4	45	130		13.7	43	50.9		94.9	73	599	26
27	11.0	30.9	39 S	104		16.3	44	62.0	20.0	67.6	64 S	374	27
28		26.7	36	83.0		27.3	76	179		40.6	57	200	28
29		28.4	37	90.8		62.0	80	429		27.8	50	120	29
30	13.0	39.2	47 S	159		54.9	67	318		21.9	45	85.1	30
31						47.3	59	241					31
TOTAL		1 441.6		10 604.7		1 324.1		9 306.0		1 722.1		29 613.9	TOTAL
MEAN		48.1		353		42.7		300		57.4		987	MEAN

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		20.2	42	73.3		3.97	47	16.1	27.0	13.6	48 S	56.4	1
2		20.1	40	69.5		4.05	47	16.4		13.2	44	50.2	2
3		19.3	39	65.0		4.42	47	17.9		13.6	41	48.2	3
4		17.2	41	60.9		5.41	48	22.4		13.3	38	43.7	4
5		62.2	105	564		85.3	157	1 160		13.2	35	39.9	5
6	26.0	36.3	56 S	176		120	147	1 520		15.2	35	46.0	6
7		21.3	46	84.7		71.0	92	564		14.1	36	43.9	7
8		14.1	45	54.8		37.4	73	236		15.5	48	64.3	8
9		10.8	44	41.1		23.0	68	135		97.2	168	1 810	9
10		10.6	41	37.5	22.0	22.2	75 S	144		141	174	2 120	10
11		10.2	40	35.3		36.7	96	304	15.0	201	213 S	3 700	11
12		7.85	40	27.1		128	191	2 110		178	120	1 850	12
13		6.44	40	22.3		89.4	103	796		139	93	1 120	13
14		7.53	51	33.2		42.1	65	236		100	71	613	14
15	27.0	7.41	65 S	41.6		33.8	75	219		70.9	62	380	15
16		6.15	65	34.5	20.0	166	215 S	3 080		47.7	57	235	16
17		4.34	62	23.2	18.0	202	161 S	2 810	16.5	36.1	51 S	159	17
18		3.60	59	18.4	19.0	136	81 S	952		30.5			18
19		4.68	56	22.6		75.2	63	409		26.4			19
20		5.96	55	28.3	19.0	44.5	54 S	208		24.2			20
21		9.99	82	70.8		32.6	52	146		23.0			21
22	25.0	13.6	91 S	107		24.8	50	107		20.8			22
23		11.1	72	69.1		21.1	48	87.5		24.5			23
24		7.38	64	40.8		18.5	48	76.7		119			24
25		5.78	61	30.5		16.9	46	67.2		151			25
26		4.88	59	24.9	21.0	15.4	45 S	59.9		102			26
27		3.90	56	18.9		14.5	43	53.9		106			27
28	22.0	3.99	54 S	18.6		13.0	41	46.1		150			28
29		4.20	50	18.1		11.3	40	39.1		107			29
30		3.85	48	16.0		13.2	48	54.7		70.7			30
31	24.0	3.92	47 S	15.9		13.5	53	61.8					31
TOTAL		368.85		1 943.9		1 525.25		15 755.7		2 077.7			TOTAL
MEAN		11.9		62.7		49.2		508		69.3			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		48.8				136				46.1 B			1
2		40.0				98.8				42.2 B			2
3		39.1				75.0				40.1 B			3
4		36.9				58.0				39.7			4
5		33.2				48.6				40.0			5
6		31.1				47.1				36.9 B			6
7		42.6				76.2				31.0 B			7
8		63.1				92.5				26.9 B			8
9		57.4				96.2				25.3 B			9
10		43.3				96.9				23.9 B			10
11		35.6				75.6				23.5			11
12		31.5				63.6				23.1			12
13		29.0				50.9				23.3			13
14		26.4				43.5				22.2			14
15		25.9				39.6				22.2			15
16		25.0				37.9				22.0			16
17		24.3				39.9				20.2			17
18		24.6				53.4			0.1	19.7	13 S	22.1	18
19		30.2			4.0	91.0	39 S	307		19.8			19
20		31.8				90.6				17.6			20
21		29.1				136				16.2			21
22		27.7				199				15.4			22
23		58.0			3.0	152	53 S	696		15.1			23
24		139				97.9				14.9 B			24
25		116				69.3				14.9 B			25
26		91.3				48.5				14.8 B			26
27		164				43.3				14.7 B			27
28	7.0	343	360 S	10 700		61.9				14.7 B			28
29		332				80.6				14.6 B			29
30		247				60.5				14.5 B			30
31		185								14.5 B			31
TOTAL		2 451.9				2 360.3				730.8			TOTAL
MEAN		79.1				78.7				23.5			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	985 ON FEB 22	MAXIMUM DAILY	47 700 ON FEB 22

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 30 23 N
LONG 74 57 20 W
DRAINAGE AREA 3 810 km^2
REGULATED FLOW

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.25	8	0.86		0.724	6	0.38		1.14	8	0.79	1
2		1.04 B	10	0.90		0.731	15	0.95		1.13	7	0.68	2
3		0.908 B	9	0.71	1.5	2.75	336 S	79.8		1.09	6	0.57	3
4		0.826 B	8	0.57		1.63	44	6.20		1.04	6	0.54	4
5	1.0	0.815 A	6 S	0.42		0.760 B	16	1.05		1.03	6	0.53	5
6		0.799 E	5	0.35	1.5	0.662 B	8 S	0.46	4.0	1.02	5 S	0.44	6
7	1.0	0.788 A	5 S	0.34		0.657 B	9	0.51		1.01	5	0.44	7
8		1.51	39	5.09		0.728 B	5	0.31		0.971	5	0.42	8
9		1.13	12	1.17		1.07	52	4.81		0.935	3	0.24	9
10		1.01	15	1.31		1.03	51	4.54		0.910	2	0.16	10
11		1.45	43	5.39		0.959	28	2.32		0.895	2	0.15	11
12	1.0	1.11	10 S	0.96	1.0	5.23	198 S	89.5		0.875	2	0.15	12
13		1.08	12	1.12	1.0	1.91	67 S	11.1	4.0	0.856	2 S	0.15	13
14		1.04	16	1.44		1.28	30	3.32		0.843	3	0.22	14
15		0.980	16	1.35		1.18	17	1.73		0.912	13	1.02	15
16		0.966	14	1.17		1.12	17	1.65		0.851	10	0.74	16
17	1.0	0.956	12 S	0.99		1.19	29	2.98	3.0	1.76	61 S	9.28	17
18		0.935 B	12	0.97		1.26	41	4.46	3.0	1.50	100 S	13.0	18
19		0.920 B	11	0.87	4.0	1.31	45 S	5.09		1.01	21	1.83	19
20		0.910 B	11	0.86		1.29	43	4.79		0.926	18	1.44	20
21		0.900	11	0.86		1.34	42	4.86		0.918	13	1.03	21
22		0.867	12	0.90		1.31	33	3.74		0.899	9	0.70	22
23	1.5	0.874	12 S	0.91		1.27	29	3.18		0.882	7	0.53	23
24		0.863	10	0.75		1.28	34	3.76		0.869	7	0.53	24
25		0.853	9	0.66		1.23	20	2.13		0.874	7	0.53	25
26		0.830	7	0.50		1.31	25	2.83		0.863	7	0.52	26
27		0.839	10	0.72	3.5	1.32	22 S	2.51	4.5	0.832	18 S	1.29	27
28		0.845	10	0.73		1.18	11	1.12		0.824	6	0.43	28
29		0.819	8	0.57						0.827	6	0.43	29
30	1.5	0.794	8 S	0.55						0.856	5	0.37	30
31		0.754	7	0.46						1.21	27	2.82	31
TOTAL		29.661		34.45		37.711		250.08		30.558		41.97	TOTAL
MEAN		0.957		1.11		1.35		8.93		0.985		1.35	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.02	15	1.41	11.0	1.07	6 S	0.55		0.721	4	0.25	1
2	7.0	0.953	4 S	0.33		1.03	6	0.53		0.682	4	0.24	2
3		1.16	15	1.50		1.07	8	0.74		0.656	5	0.28	3
4		1.03	9	0.80		1.08	7	0.65		0.664	5	0.29	4
5		1.01	5	0.44		1.03	5	0.44		0.651	6	0.34	5
6		1.06	13	1.19		1.04	5	0.45	13.0	0.650	6 S	0.34	6
7		1.07	15	1.39		1.06	5	0.46		0.676	7	0.41	7
8		0.953	7	0.58	13.0	1.04	6 S	0.54		0.637	8	0.44	8
9		0.930	5	0.40		0.988	6	0.51		0.710	15	0.92	9
10	8.0	0.978	6 S	0.51		0.965	6	0.50	12.0	1.50	113 S	14.6	10
11		0.925	4	0.32		0.968	5	0.42		1.11	38	3.64	11
12		0.913	4	0.32		0.950	5	0.41		0.817	12	0.85	12
13		0.884	4	0.31		0.973	4	0.34		0.710	5	0.31	13
14		0.850 A	4	0.29		0.975	6	0.51	12.0	0.671	5 S	0.29	14
15		0.805 E	4	0.28	13.0	0.920	6 S	0.48		0.663	5	0.29	15
16		0.830 E	4	0.29		0.889	4	0.31		0.666	5	0.29	16
17		0.745 E	4	0.26		0.930	5	0.40		0.691	16	0.96	17
18	7.0	0.718 E	4 S	0.25		0.898	7	0.54	15.0	0.705	22 S	1.34	18
19		0.800 E	7	0.48		0.865	6	0.45		0.663	11	0.63	19
20		0.925 E	4	0.32		0.847	5	0.37		0.646	6	0.33	20
21		0.810 E	2	0.14		0.817	5	0.35		1.00	37	3.20	21
22		0.900 E	3	0.23		0.814	5	0.35		0.862	19	1.42	22
23		1.04 E	5	0.45	10.0	0.819	9 S	0.64		0.728	8	0.50	23
24	10.0	1.30 E	4 S	0.45		1.30	63	7.08		0.691	6	0.36	24
25		1.17 E	4	0.40		0.951	7	0.58		0.735	10	0.64	25
26		1.25 E	3	0.32		0.847	4	0.29	13.0	1.30	12 S	1.35	26
27		1.10 E	3	0.29		0.810	4	0.28		0.849	5	0.37	27
28		0.935 A	4	0.32		0.761	5	0.33		0.741	5	0.32	28
29		0.950	6	0.49		0.736	9	0.57		0.691	5	0.30	29
30		1.40	40	4.84	14.0	0.734	19 S	1.20		0.675	5	0.29	30
31						0.734	8	0.51					31
TOTAL		29.414		19.60		28.911		21.78		23.161		35.79	TOTAL
MEAN		0.980		0.65		0.933		0.70		0.772		1.19	MEAN

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.674	5			0.521	3	0.14		0.397	2	0.07	1
2		0.661	5	0.29		0.520	3	0.13		0.393	2	0.07	2
3		0.653	4	0.29		0.519	3	0.13		0.389	2	0.07	3
4	18.0	0.663	4 S	0.23		0.526	3	0.14		0.375	1	0.03	4
5		0.660	4	0.23		0.513 A	4	0.18	10.0	0.358	5 S	0.15	5
6		0.759	9	0.59									
7		0.711	5	0.31		0.510 E	4	0.18		0.364	6	0.19	6
8		0.667	3	0.17	15.0	0.553 A	4 S	0.19		0.365	5	0.16	7
9		0.633	6	0.33		0.541	3	0.14		0.358	5	0.15	8
10	14.0	0.640	12 S	0.66		0.507	4	0.18		0.359	5	0.16	9
						0.489	4	0.17		0.366	5	0.16	10
11		0.628	4										
12		0.607	3	0.22		0.484	5	0.21		0.363	5	0.19	11
13		0.585	4	0.16		0.477	5	0.21	9.0	0.369	6 S	0.19	12
14		0.737	15	0.20		0.479	4	0.17		0.359	5	0.16	13
15		0.824	32	0.96		0.485	5	0.21		0.358	4	0.12	14
				2.28	15.0	0.468	5 S	0.20		0.361	3	0.09	15
16		0.709	9										
17		0.622	4	0.55		0.454	5	0.20		0.358	3	0.09	16
18	17.0	0.582	4 S	0.21		0.480	6	0.25		0.343	2	0.06	17
19		0.567	5	0.20		0.493	6	0.26	11.0	0.327	1 S	0.03	18
20		0.559	6	0.24		0.470	6	0.24		0.338	2	0.06	19
				0.29		0.442	7	0.27		0.366	2	0.06	20
21		0.566	7										
22		0.622	6	0.34		0.445	8	0.31		0.354	3	0.09	21
23		0.576	5	0.32	16.0	0.442	17 S	0.65		0.344	4	0.12	22
24		0.538	4	0.25		0.433	4	0.15		0.873	26	1.96	23
25	18.0	0.520	4 S	0.19		0.424	2	0.07	10.0	0.528	3 S	0.14	24
				0.18		0.411	2	0.07		0.512	8	0.35	25
26		0.524	3										
27		0.597	11	0.14		0.412	2	0.07		0.435	6	0.23	26
28		0.703	15	0.57		0.410	2	0.07		0.370	4	0.13	27
29		0.589	3	0.91		0.421	2	0.07		0.368	3	0.10	28
30		0.569	3	0.15	11.0	0.405	2 S	0.07		0.383	4	0.13	29
31	17.0	0.562	3 S	0.15		0.398	2	0.07	10.0	0.403	6 S	0.21	30
				0.15		0.401	2	0.07					31
TOTAL		19.503		11.99		14.533		5.47		11.836		5.72	TOTAL
MEAN		0.629		0.39		0.469		0.18		0.394		0.19	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.442	6										
2		0.396	4	0.23		0.554	5	0.24		0.995	5	0.43	1
3	9.0	0.409	7 S	0.14		0.588	9	0.46		1.07	9	0.83	2
4		0.388	6	0.25		0.559	6	0.29	3.0	2.21	171 S	32.7	3
5		0.358	3	0.20		0.530	4	0.18		1.86	130	20.9	4
				0.09		0.515	6	0.27		1.29	10	1.11	5
6		0.358	2										
7		0.547	14	0.06	8.0	0.542	6 S	0.28	5.0	2.13	58 S	10.7	6
8		0.675	19	0.66	8.0	1.06	29 S	2.66		1.67	15	2.16	7
9	8.0	0.574	3 S	1.11		0.801	25	1.73		1.66	44	6.31	8
10		0.608	12	0.15		0.641	6	0.33	5.0	1.59	37 S	5.08	9
				0.63		0.601	4	0.21		1.58	17	2.32	10
11		0.562	10										
12		0.470	3	0.49		0.585	3	0.15		1.58	8	1.09	11
13		0.421	2	0.12		0.611	4	0.21	3.0	1.53	4 S	0.53	12
14		0.396	3	0.07		0.586	4	0.20		1.47	3	0.38	13
15		0.388	3	0.10		0.577	1	0.05		1.42	3	0.37	14
				0.10	6.0	0.576	2 S	0.10		1.45	8	1.00	15
16		0.372	4										
17	8.0	0.374	6 S	0.13		0.582	1	0.05		2.60	170	38.2	16
18		0.378	2	0.19		0.724	19	1.19	2.0	1.80	52 S	8.09	17
19		0.513	5	0.07		0.919	25	1.99		1.52	12	1.58	18
20		0.904	68	0.22		1.09	79	7.44		1.52	9	1.18	19
				5.31		0.793	12	0.82		1.52	7	0.92	20
21		0.543	16										
22		0.463	5	0.75	6.0	2.40	142 S	29.4		1.45	7	0.88	21
23	8.0	0.423	14 S	0.20		1.35	135	15.7		1.44	9	1.12	22
24		0.421	7	0.51		0.994	25	2.15		1.48	7	0.90	23
25		0.438	6	0.25		0.942	9	0.73		1.47	4	0.51	24
				0.23		0.936	7	0.57		1.42	5	0.61	25
26		0.429	5										
27		0.623	13	0.19		0.943	5	0.41		1.37	6	0.71	26
28	8.0	1.52	48 S	0.70		0.954	4	0.33		1.31	8	0.91	27
29		0.962	35	6.30		0.955	5	0.41		1.29	11	1.23	28
30		0.630	9	2.91	3.0	1.00	7 S	0.60		1.31	13	1.47	29
31		0.566	4	0.49		1.03	6	0.53		1.33	10	1.15	30
				0.20						1.26	5	0.54	31
TOTAL		16.552		23.05		24.938		69.68		47.595		145.91	TOTAL
MEAN		0.534		0.74		0.831		2.32		1.54		4.71	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	25
MAXIMUM DAILY	336 ON FEB 03
MINIMUM DAILY	1 ON SEP 04

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1.82
MAXIMUM DAILY	69.5 ON FEB 12
MINIMUM DAILY	0.03 ON SEP 04

TOTAL SUSPENDED SEDIMENT LOAD 665.49 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 12 07 N
LONG 62 39 23 W
DRAINAGE AREA 33.1 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

EMERALD BROOK NEAR EMERALD - STATION NO. 01CB006

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.062	15 S	0.08		0.054	2	0.01		0.121	8	0.08	1
2		0.061	8	0.04		0.057	16 S	0.08		0.118	9 S	0.09	2
3		0.061 B	32 S	0.17		1.07	699	64.6		0.111	9	0.09	3
4		0.060	8	0.04		0.285	127	3.13		0.107	8	0.07	4
5		0.059 B	5 S	0.03		0.148	22	0.28		0.095	10 S	0.08	5
6		0.058 B	5	0.03		0.104	21	0.19		0.092	15	0.12	6
7		0.058	8	0.04		0.092	21 S	0.17		0.088	32 S	0.24	7
8	2.0	0.257	54 S	1.20		0.085	8	0.06		0.085	14	0.10	8
9		0.132	7	0.08		0.137	13 S	0.15		0.083	15 S	0.11	9
10		0.094	5 S	0.04		0.132	8	0.09		0.084	12	0.09	10
11		0.088 B	7	0.05		0.295	117	2.98		0.083	7	0.05	11
12		0.084	10 S	0.07		2.48	1 110 S	238		0.082	4 S	0.03	12
13		0.075	13	0.08		0.208	197	3.54		0.080	4	0.03	13
14		0.074 B	20	0.13		0.146	69 S	0.87		0.082	10 S	0.07	14
15		0.073	6 S	0.04		0.131	44	0.50		0.086	16	0.12	15
16		0.070	8	0.05		0.123	16 S	0.17		0.084	29	0.21	16
17		0.070	8 S	0.05	6.5	0.209	74 S	1.34		0.617	218	11.6	17
18		0.070 B	27	0.16		0.217	64	1.20		0.161	262	3.64	18
19		0.069 B	11 S	0.07		0.209	55 S	0.99		0.108	246 S	2.30	19
20		0.068 B	7	0.04		0.191	44	0.73		0.103	247	2.20	20
21		0.068	9 S	0.05		0.209	50 S	0.90		0.098	239 S	2.02	21
22		0.068	9	0.05		0.157	26	0.35		0.097	200	1.68	22
23		0.065	6	0.03		0.157	34 S	0.46		0.098	167 S	1.41	23
24		0.064	5 S	0.03		0.139	11	0.13		0.099	109	0.93	24
25		0.064	3	0.02	7.0	0.128	8 S	0.09	8.5	0.096	53 S	0.44	25
26		0.061	3 S	0.02		0.143	26 S	0.32		0.096	39 S	0.32	26
27		0.059	8	0.02		0.130	17	0.19		0.096	22	0.18	27
28	2.0	0.059	2 S	0.01		0.124	14 S	0.15		0.099	19 S	0.16	28
29		0.058	2	0.01						0.100	20	0.17	29
30		0.057	2	0.01						0.099	27 S	0.23	30
31		0.055	2	0.01						0.113	15 S	0.15	31
TOTAL		2.321		2.75		7.560		321.67		3.561		29.01	TOTAL
MEAN		0.075		0.09		0.270		11.5		0.115		0.94	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.103	12	0.11		0.128	3	0.03		0.088	2	0.02	1
2		0.113	17 S	0.17		0.126	4 S	0.04		0.080	2	0.01	2
3	7.0	0.140	23 S	0.28		0.119	3	0.03	11.0	0.083	1 S	0.01	3
4		0.109	13 S	0.12		0.118	2 S	0.02		0.080	1	0.01	4
5		0.108	15	0.14		0.112	3	0.03		0.079	2	0.01	5
6		0.143	26 S	0.32		0.111	5	0.05		0.080	6	0.04	6
7		0.129	8 S	0.09		0.118	12 S	0.12		0.088	6	0.05	7
8		0.120	7	0.07		0.110	3	0.03		0.081	5	0.03	8
9		0.117	9 S	0.09		0.104	2 S	0.02		0.096	28	0.23	9
10		0.121	12	0.13		0.102	5	0.04		0.140	41	0.50	10
11		0.118	12 S	0.12		0.100	19 S	0.16		0.109	4	0.04	11
12		0.115	12	0.12		0.097	7	0.06	7.5	0.096	2 S	0.02	12
13		0.111	9 S	0.09		0.097	8	0.07		0.093	2	0.02	13
14		0.114	8 S	0.08	11.5	0.098	7 S	0.06		0.091	3	0.02	14
15		0.119	8	0.08		0.092	5	0.04	11.0	0.091	10 S	0.08	15
16		0.112	7 S	0.07		0.092	4	0.03		0.095	12	0.10	16
17		0.114	4	0.04		0.146	45	0.57		0.095	11	0.09	17
18		0.121	8 S	0.08		0.100	3	0.03		0.092	10 S	0.08	18
19		0.128	8	0.09		0.095	5	0.04		0.089	10	0.08	19
20		0.117	6 S	0.06		0.093	7	0.06		0.088	8 S	0.06	20
21		0.119	4 S	0.04		0.088	7	0.05		0.159	81	1.11	21
22		0.118	4	0.04		0.085	8	0.06		0.098	59 S	0.50	22
23		0.135	9 S	0.10		0.083	9	0.06		0.177	99	1.51	23
24		0.137	4	0.05		0.096	16	0.13		0.108	29	0.27	24
25		0.138	6 S	0.07		0.088	3	0.02		0.142	52 S	0.64	25
26		0.136	8	0.09		0.086	4	0.03	10.5	0.231	80 S	1.60	26
27		0.129	8 S	0.09	11.0	0.088	3 S	0.02		0.137	43 S	0.51	27
28		0.127	8	0.09		0.087	2	0.02		0.131	15	0.17	28
29		0.140	15 S	0.18		0.087	3	0.02		0.130	15 S	0.17	29
30		0.156	11 S	0.15		0.086	1	0.01		0.129	14	0.16	30
31						0.094	8	0.06					31
TOTAL		3.707		3.25		3.126		2.01		3.276		8.14	TOTAL
MEAN		0.123		0.11		0.101		0.06		0.109		0.27	MEAN

PRINCE EDWARD ISLAND

EMERALD BROOK NEAR EMERALD - STATION NO. 01CB006

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.128	14	0.15		0.080	7 S	0.05		0.048	5	0.02	1
2		0.127	15 S	0.16		0.077	6	0.04		0.048	7	0.03	2
3		0.127	11	0.12		0.078	4 S	0.03		0.048	9 S	0.04	3
4		0.127	27 S	0.30		0.080	5	0.03		0.048	13	0.05	4
5		0.129	24	0.27		0.078	6	0.04		0.047	16 S	0.06	5
6		0.132	25 S	0.29		0.075	7 S	0.05		0.047	17	0.07	6
7		0.132	14	0.16		0.076	7	0.05		0.047	18 S	0.07	7
8		0.127	16	0.18		0.076	7 S	0.05		0.047	16	0.06	8
9		0.123	18 S	0.19		0.070	6	0.04		0.046	16	0.06	9
10		0.124	17	0.18		0.068	5 S	0.03		0.045	18 S	0.07	10
11		0.120	18 S	0.19		0.069	5	0.03		0.045	18	0.07	11
12		0.116	19	0.19		0.069	4	0.02		0.043	25 S	0.09	12
13		0.110	15 S	0.14	10.0	0.066	4 S	0.02		0.045	22	0.09	13
14		0.130	26	0.29		0.062	4	0.02		0.043	19 S	0.07	14
15		0.150	37	0.48		0.059	4 S	0.02		0.042	18	0.07	15
16		0.117	13 S	0.13		0.060	14	0.07		0.042	10	0.04	16
17		0.108	11	0.10		0.063	19 S	0.10	9.0	0.040	7 S	0.02	17
18		0.105	10 S	0.09		0.062	11	0.06		0.039	12	0.04	18
19		0.105	6	0.05		0.058	5	0.03		0.039	16 S	0.05	19
20		0.104	16 S	0.14		0.056	3 S	0.01		0.042	23	0.08	20
21		0.105	10	0.09		0.057	5	0.02		0.042	29 S	0.11	21
22	11.0	0.104	9 S	0.08		0.056	10 S	0.05		0.040	19	0.07	22
23		0.098	10 S	0.08		0.054	9	0.04		0.045	22	0.09	23
24		0.093	6	0.05		0.054	11 S	0.05		0.044	14 S	0.05	24
25		0.086	10 S	0.07		0.055	11	0.05		0.045	36	0.14	25
26		0.083	3	0.02		0.055	9	0.04		0.037	11 S	0.04	26
27		0.113	50 S	0.49		0.055	8 S	0.04		0.036	3	0.01	27
28		0.095	14	0.11		0.054	7	0.03		0.037	3 S	0.01	28
29		0.085	12	0.09		0.051	6 S	0.03		0.035	4	0.01	29
30		0.084	12 S	0.09		0.051	5	0.02		0.039	3	0.01	30
31		0.083	9	0.06	10.5	0.050	4 S	0.02					31
TOTAL		3.470		5.03		1.974		1.18		1.291		1.69	TOTAL
MEAN		0.112		0.16		0.064		0.04		0.043		0.06	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.038	3 S	0.01		0.059	12	0.06		0.138	28	0.29	1
2		0.038	14	0.05		0.061	10 S	0.05		0.189	107	1.75	2
3		0.043	14 S	0.05		0.058	9	0.05		0.230	97 S	1.93	3
4		0.038	6	0.02		0.059	8	0.04		0.188	32	0.52	4
5		0.036	6 S	0.02		0.056	6 S	0.03		0.164	65 S	0.92	5
6		0.036	7	0.02		0.061	16	0.08		0.446	363	14.0	6
7		0.048	59	0.24		0.133	109 S	1.25		0.212	31 S	0.57	7
8		0.055	70 S	0.33		0.069	7	0.04		0.212	23	0.42	8
9		0.050	39	0.17		0.065	9 S	0.05		0.210	17	0.31	9
10		0.044	24 S	0.09		0.063	8	0.04		0.211	111 S	2.02	10
11		0.040	8	0.03		0.064	8	0.04		0.219	106	2.01	11
12		0.039	5 S	0.02		0.065	24 S	0.13		0.210	96 S	1.74	12
13		0.037	5	0.02		0.065	17	0.10		0.199	62	1.07	13
14		0.036	6	0.02		0.067	19 S	0.11		0.198	44 S	0.75	14
15	9.0	0.035	5 S	0.02		0.065	21	0.12		0.200	51	0.88	15
16		0.034	5	0.01		0.064	28 S	0.15	6.5	0.405	179 S	6.26	16
17		0.034	6 S	0.02		0.070	47	0.28		0.238	57 S	1.17	17
18		0.033	6	0.02	7.0	0.152	220 S	2.89		0.229	53	1.05	18
19		0.048	81 S	0.34		0.112	28	0.27		0.231	68 S	1.36	19
20		0.051	29	0.13		0.105	50	0.45		0.239	47	0.97	20
21		0.036	11	0.03		0.365	452 S	14.3		0.239	30 S	0.62	21
22		0.037	9 S	0.03		0.149	69	0.89		0.237	31	0.63	22
23		0.036	9	0.03		0.138	40 S	0.48		0.231	65	1.30	23
24		0.056	79 S	0.38	6.0	0.139	19 S	0.23		0.227	66 S	1.29	24
25		0.039	14	0.05		0.138	22	0.26		0.222	62	1.19	25
26		0.035	12 S	0.04		0.134	22 S	0.25		0.222	43 S	0.82	26
27		0.045	24	0.09		0.137	16	0.19		0.204	49	0.86	27
28		0.261	214 S	4.83		0.140	21 S	0.25		0.203	45 S	0.79	28
29	10.0	0.089	89 S	0.68		0.143	22	0.27		0.206	51	0.91	29
30		0.070	48	0.29		0.145	44 S	0.55		0.207	49	0.88	30
31		0.064	22 S	0.12						0.199	46 S	0.79	31
TOTAL		1.581		8.20		3.141		23.90		6.965		50.07	TOTAL
MEAN		0.051		0.26		0.105		0.80		0.225		1.62	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	126	
MAXIMUM DAILY	1 110	ON FEB 12
MINIMUM DAILY	1	ON MAY 30

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1.25	
MAXIMUM DAILY	238	ON FEB 12
MINIMUM DAILY	0.01	ON JAN 28

TOTAL SUSPENDED SEDIMENT LOAD 456.90 t

TYPE OF GAUGE - RECORDING

LOCATION - LAT 46 21 34 N

LONG 63 33 29 W

DRAINAGE AREA 5.59 km^2

NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.168	6	0.09		0.142	7	0.09		0.292	4	0.10	1
2		0.161	6	0.08	0.5	0.152	5 S	0.07	5.5	0.284	5 S	0.12	2
3		0.160 B	5	0.07	0.5	3.46	105 S	31.4		0.260	5	0.11	3
4		0.160 B	5	0.07		0.527	13	0.59		0.261	5	0.11	4
5		0.160 B	6	0.08		0.294	11	0.28		0.262	4	0.09	5
6		0.161	8	0.11		0.245	9	0.19		0.263	4	0.09	6
7		0.169	59	0.86		0.225	6	0.12		0.264	4	0.09	7
8	1.5	0.436	37 S	1.39		0.223	5	0.10		0.253	5	0.11	8
9		0.269	9	0.21	4.5	0.265	7 S	0.16		0.259	4	0.09	9
10		0.242	8	0.17		0.295	7	0.18	5.5	0.240	5 S	0.10	10
11		0.227	10	0.20		0.363	8	0.25		0.235	4	0.08	11
12		0.189	11	0.18	0.5	6.80	122 S	71.7		0.239	4	0.08	12
13		0.185 B	12	0.19		0.449	14	0.54		0.226	2	0.04	13
14		0.180 B	12	0.19		0.326	10	0.28		0.213	1	0.02	14
15	0.5	0.175	12 S	0.18		0.297	9	0.23		0.211	1	0.02	15
16		0.164	10	0.14	4.5	0.277	7 S	0.17	3.5	0.211	1 S	0.02	16
17		0.156	9	0.12	5.5	0.414	21 S	0.75	4.5	1.98	80 S	13.7	17
18		0.154 B	9	0.12		0.481	25	1.04		0.640	9	0.50	18
19		0.157 B	10	0.14		0.525	25	1.13		0.324	3	0.08	19
20		0.162	10	0.14		0.523	27	1.22		0.277	3	0.07	20
21	0.5	0.161 B	24 S	0.33		0.592	23	1.18		0.271	3	0.07	21
22		0.160 B	17	0.24		0.415	20	0.72		0.277	3	0.07	22
23		0.160	13	0.18	6.5	0.393	22 S	0.75		0.275	3	0.07	23
24		0.160	13	0.18		0.358	12	0.37	6.5	0.258	3 S	0.07	24
25		0.160	13	0.18		0.274	4	0.09		0.234	3	0.06	25
26		0.162	11	0.15		0.332	18	0.52		0.228	1	0.02	26
27		0.166	10	0.14		0.338	7	0.20		0.231	1	0.02	27
28	0.5	0.172	10 S	0.15		0.304	4	0.11		0.235	2	0.04	28
29		0.168	9	0.13						0.234	4	0.08	29
30		0.166	9	0.13					6.5	0.233	3 S	0.06	30
31		0.157	8	0.11						0.270	2	0.05	31
TOTAL		5.627		6.65		19.289		114.43		9.940		16.23	TOTAL
MEAN		0.181		0.21		0.689		4.09		0.321		0.52	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.236	2	0.04		0.220	3	0.06		0.188	3	0.05	1
2	7.5	0.257	4 S	0.09		0.202	5	0.09	14.0	0.181	5 S	0.08	2
3		0.371	6	0.19		0.191	4	0.07		0.181	4	0.06	3
4		0.319	4	0.11		0.189	3	0.05		0.186	3	0.05	4
5		0.310	2	0.05	10.5	0.179	3 S	0.05		0.183	4	0.06	5
6	7.0	0.350	13 S	0.39		0.186	3	0.05		0.181	4	0.06	6
7	7.0	0.305	7 S	0.18		0.202	3	0.05		0.181	5	0.08	7
8		0.257	4	0.09		0.211	2	0.04		0.181	4	0.06	8
9		0.267	4	0.09		0.215	2	0.04	9.5	0.217	5 S	0.09	9
10		0.280	5	0.12		0.211	2	0.04		0.277	16	0.38	10
11		0.263	5	0.11		0.204	1	0.02		0.234	9	0.18	11
12		0.254	6	0.13	13.0	0.206	1 S	0.02		0.214	8	0.15	12
13		0.243	5	0.10		0.205	0	0		0.206	9	0.16	13
14	7.5	0.228	4 S	0.08		0.198	0	0		0.189	10	0.16	14
15		0.224	4	0.08		0.201	0	0		0.178	10	0.15	15
16		0.208	4	0.07		0.208	1	0.02	10.0	0.197	10 S	0.17	16
17		0.201	5	0.09		0.319	10	0.28		0.194	10	0.17	17
18		0.221	3	0.06		0.209	11	0.20		0.193	9	0.15	18
19		0.235	3	0.06	8.0	0.196	12 S	0.20		0.193	9	0.15	19
20		0.229	3	0.06		0.190	9	0.15		0.180	10	0.16	20
21	5.5	0.225	6 S	0.12		0.198	4	0.07		0.252	11	0.24	21
22		0.210	6	0.11		0.199	2	0.03		0.201	11	0.19	22
23		0.221	4	0.08		0.204	3	0.05	14.0	0.299	30 S	0.78	23
24		0.243	4	0.08		0.213	3	0.06	13.5	0.216	9 S	0.17	24
25		0.245	3	0.06		0.209	2	0.04		0.224	14	0.27	25
26		0.225	2	0.04	12.5	0.185	3 S	0.05	14.0	0.594	160 S	8.21	26
27		0.212	3	0.05		0.181	3	0.05		0.295	12	0.31	27
28	10.5	0.192	4 S	0.07		0.179	3	0.05		0.269	8	0.19	28
29		0.207	4	0.07		0.184	2	0.03		0.259	9	0.20	29
30		0.249	4	0.09		0.181	2	0.03		0.254	9	0.20	30
31						0.199	2	0.03					31
TOTAL		7.487		2.96		6.274		1.92		6.797		13.33	TOTAL
MEAN		0.249		0.10		0.202		0.06		0.226		0.44	MEAN

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.251	8	0.17		0.211	5	0.09		0.137	4	0.05	1
2		0.248	10	0.21		0.208	5	0.09		0.137	4	0.05	2
3		0.241	8	0.17		0.209	5	0.09		0.142	5	0.06	3
4		0.238	8	0.16		0.209	5	0.09		0.146	4	0.05	4
5		0.236	9	0.18		0.206	5	0.09	12.0	0.148	5 S	0.06	5
6		0.242	9	0.19	11.5	0.206	4 S	0.07		0.152	5	0.07	6
7	12.0	0.239	9 S	0.19		0.191	4	0.07		0.147	5	0.06	7
8		0.224	8	0.15		0.182	4	0.06		0.142	6	0.07	8
9		0.214	8	0.15		0.187	4	0.06		0.150	5	0.06	9
10		0.255	8	0.18		0.197	4	0.07		0.148	4	0.05	10
11	13.0	0.245	7 S	0.15		0.189	6	0.10		0.146	3	0.04	11
12		0.229	9	0.18	13.5	0.173	7 S	0.10		0.142	2	0.02	12
13		0.224	8	0.15		0.175	6	0.09		0.152	2	0.03	13
14		0.232	6	0.12		0.173	5	0.07		0.152	1	0.01	14
15		0.268	4	0.09		0.176	5	0.08	11.5	0.154	2 S	0.03	15
16		0.251	4	0.09		0.178	5	0.08		0.151 E	3	0.04	16
17		0.221	5	0.10		0.182	6	0.09		0.149 E	3	0.04	17
18		0.216	6	0.11		0.175	7	0.11		0.148 E	4	0.05	18
19		0.220	5	0.10		0.172	6	0.09		0.148 E	3	0.04	19
20		0.223	5	0.10		0.172	7	0.10		0.146 E	5	0.06	20
21	12.0	0.225	5 S	0.10		0.162	8	0.11		0.148 E	4	0.05	21
22		0.212	5	0.09	11.0	0.173	8 S	0.12		0.151 E	5	0.07	22
23		0.206	5	0.09		0.175	7	0.11	10.0	0.149 A	4 S	0.05	23
24		0.205	5	0.09		0.179	5	0.08		0.149 E	3	0.04	24
25		0.190	4	0.07		0.154	5	0.07		0.148 E	2	0.03	25
26		0.200	3	0.05		0.153	4	0.05		0.146 E	1	0.01	26
27		0.233	4	0.08		0.155	3	0.04		0.146 E	1	0.01	27
28	14.0	0.233	6 S	0.12	10.5	0.160	3 S	0.04		0.144 E	1	0.01	28
29		0.218	6	0.11		0.152	4	0.05		0.144 E	1	0.01	29
30		0.204	7	0.12		0.159	5	0.07		0.146 E	2	0.03	30
31		0.209	7	0.13		0.145	5	0.06					31
TOTAL		7.052		3.99		5.538		2.49		4.408		1.25	TOTAL
MEAN		0.227		0.13		0.178		0.08		0.147		0.04	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	9.5	0.148	2 S	0.03		0.198	5	0.09		0.239	9	0.19	1
2		0.147	2	0.03		0.202	2	0.03		0.296	29	0.74	2
3		0.162	5	0.07		0.207	0	0	5.5	0.439	63 S	2.39	3
4		0.157	3	0.04	6.5	0.180	2 S	0.03		0.375	12	0.39	4
5		0.155	3	0.04		0.178	3	0.05		0.319	9	0.25	5
6		0.156	5	0.07		0.179	4	0.06		0.876	107	8.10	6
7		0.154	8	0.11	10.5	0.320	169 S	4.67		0.464	11	0.44	7
8	9.5	0.171	36 S	0.53		0.248	4	0.09		0.388	11	0.37	8
9		0.172	8	0.12		0.215	5	0.09		0.368	11 S	0.35	9
10	7.0	0.169	2 S	0.03		0.191	7	0.12	9.0	0.364	10	0.31	10
11		0.160	3	0.04		0.193	8	0.13		0.349	10	0.30	11
12		0.162	3	0.04		0.202	7	0.12		0.334	9	0.26	12
13		0.146	3	0.04	5.0	0.188	5 S	0.08		0.287	7	0.17	13
14		0.150	2	0.03		0.191	3	0.05		0.277	5	0.12	14
15	6.5	0.150	1 S	0.01		0.189	4	0.07		0.355	4	0.12	15
16		0.148	2	0.03		0.178	5	0.08		0.957	82 S	6.78	16
17	11.0	0.144	7 S	0.09	8.5	0.200	17 S	0.29	5.0	0.622	12	0.64	17
18		0.142	6	0.07	7.5	0.309	112 S	2.99		0.473	8	0.33	18
19		0.171	9	0.13	6.5	0.369	77 S	2.45		0.451	8	0.31	19
20	10.0	0.179	6 S	0.09		0.274	18	0.43		0.448	9	0.35	20
21		0.160	5	0.07		0.839	204	14.8		0.447	9	0.35	21
22		0.166	2	0.03		0.438	14	0.53		0.421	9	0.33	22
23		0.167	1	0.01		0.353	6	0.18	4.5	0.412	9 S	0.32	23
24		0.225	6	0.12		0.351	5	0.15		0.404	9	0.31	24
25		0.189	2	0.03	6.5	0.349	5 S	0.18		0.390	8	0.27	25
26	8.0	0.189	3 S	0.05		0.329	7	0.20		0.378	8	0.26	26
27	9.5	0.202	23 S	0.40		0.313	9	0.24		0.362	8	0.25	27
28	9.0	0.568	240 S	11.8		0.294	10	0.25		0.348	8	0.24	28
29		0.437	10	0.38		0.279	8	0.19		0.352	8	0.24	29
30		0.239	6	0.12		0.277	8	0.19	4.5	0.358	8 S	0.25	30
31		0.203	6	0.11						0.336	7	0.20	31
TOTAL		5.888		14.76		8.233		28.83		12.889		25.93	TOTAL
MEAN		0.190		0.48		0.274		0.96		0.415		0.84	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	27	
MAXIMUM DAILY	240	ON OCT 28
MINIMUM DAILY	0	ON MAY 13

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.64	
MAXIMUM DAILY	71.7	ON FEB 12
MINIMUM DAILY	0	ON MAY 13

TOTAL SUSPENDED SEDIMENT LOAD 232.77 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 20 49 N
LONG 63 37 58 W

DRAINAGE AREA 12.9 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.881 B	3	0.23		0.594	4	0.21		1.12	3	0.29	1
2		0.766 B	1	0.07	4.5	0.624	22 S	1.19		1.10	4	0.38	2
3		0.712	1	0.06	0.1	9.58	222 S	184		1.04	4	0.36	3
4		0.690 B	1	0.06		2.57 B	117	26.0		1.01	4	0.35	4
5		0.662 B	2	0.11		1.51 B	55	7.18		0.981	4	0.34	5
6		0.646 B	2	0.11		1.15 B	39	3.88		0.955	4	0.33	6
7		0.634 B	15	0.82		1.08	37	3.45		0.940	4	0.32	7
8	1.0	2.00 A	64 S	11.1		1.02	42	3.70		0.908	4	0.31	8
9		1.15 B	22	2.19		1.30	88	9.88		0.893	3	0.23	9
10		0.910 B	19	1.49	0.1	1.29	52 S	5.80		0.883	3	0.23	10
11		0.846 B	20	1.46		1.57	67	9.09		0.869	3	0.23	11
12		0.804 B	13	0.90	3.0	19.1	245 S	404		0.862	2	0.15	12
13		0.778	15	1.01		2.09 B	127	22.9		0.851	2	0.15	13
14		0.766 B	23	1.52		1.46 B	45	5.68		0.850	5	0.37	14
15		0.754 B	18	1.17		1.34 B	38	4.40		0.926	11	0.88	15
16		0.754	15	0.98		1.31 B	33	3.74		0.863	6	0.45	16
17		0.734	14	0.89	4.0	1.69	53 S	7.74	1.0	4.71	68 S	27.7	17
18		0.718 B	21	1.30		1.84	58	9.22		3.52	38	11.6	18
19	0.1	0.710 B	25 S	1.53		1.94	69	11.6		1.28	16	1.77	19
20		0.698 B	24	1.45		1.99	58	9.97		1.16	9	0.90	20
21		0.695	22	1.32		2.23	50	9.63		1.09	5	0.47	21
22		0.668	21	1.21		1.73	31	4.63		1.04	6	0.54	22
23		0.664	20	1.15		1.55	28	3.75		1.06	7	0.64	23
24		0.656	20	1.13	3.0	1.42	12 S	1.47		1.04	7	0.63	24
25		0.637	19	1.05		1.27	9	0.99		0.989	5	0.43	25
26		0.627	20	1.08		1.29	15	1.67		0.950	5	0.41	26
27	4.0	0.629	18 S	0.98		1.28	8	0.88		0.969	9	0.75	27
28	3.5	0.616	5 S	0.27		1.16	4	0.40		0.949	5	0.41	28
29		0.603	6	0.31						0.942	3	0.24	29
30		0.594	4	0.21						0.962	3	0.25	30
31		0.600	4	0.21					4.5	1.17	9 S	0.91	31
TOTAL		23.602		37.37		66.978		757.05		36.882		53.02	TOTAL
MEAN		0.761		1.21		2.39		27.0		1.19		1.71	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.01	9	0.79		1.04	12	1.08		0.841	22	1.60	1
2	2.0	1.04	16 S	1.44		0.990	5	0.43		0.768	9	0.60	2
3	6.0	1.71	213 S	31.5		0.972	4	0.34		0.740	7	0.45	3
4		1.31	37	4.19		0.946	4	0.33		0.741	5	0.32	4
5		1.36	15	1.76		0.947	3	0.25		0.733	3	0.19	5
6		1.73	37	5.53		0.947	2	0.16		0.729	3	0.19	6
7	5.0	1.48	35 S	4.48	7.0	0.976	7 S	0.59		0.758	6	0.39	7
8		1.26	11	1.20		0.939	4	0.32		0.741	4	0.26	8
9		1.23	5	0.53		0.896	3	0.23		0.794	10	0.69	9
10		1.28	6	0.66		0.878	2	0.15		1.38	89	10.6	10
11		1.22	3	0.32		0.866	2	0.15		1.11	28	2.69	11
12		1.18	3	0.31		0.853	3	0.22		0.901	10	0.78	12
13		1.12	3	0.29		0.848	2	0.15		0.859	6	0.45	13
14		1.07	4	0.37	9.5	0.848	4 S	0.29		0.840	4	0.29	14
15		1.08	4	0.37		0.828	6	0.43		0.831	4	0.29	15
16		1.02	4	0.35		0.814	9	0.63		0.829	4	0.29	16
17		1.02	2	0.18	3.0	1.25	574 S	62.0		0.833	4	0.29	17
18		1.05	3	0.27		0.980	56	4.74		0.830	3	0.22	18
19		1.12	7	0.68		0.860	23	1.71		0.802	5	0.35	19
20		1.02	2	0.18		0.836	18	1.30		0.776	7	0.47	20
21	4.0	0.989	2 S	0.17		0.810	21	1.47		1.40	150	18.1	21
22		0.966	1	0.08		0.794	25	1.72		1.00	28	2.42	22
23	5.0	1.06	10 S	0.92		0.794	30	2.06	15.0	1.51	237 S	30.9	23
24		1.11	7	0.67		0.901	50	3.89		0.954	24	1.98	24
25		1.07	4	0.37		0.913	27	2.13		0.970	55	4.61	25
26		1.03	4	0.36		0.832	8	0.58	11.0	2.54	293 S	64.3	26
27		0.987	3	0.26	11.5	0.802	5 S	0.35		1.22	23	2.42	27
28		0.961	3	0.25		0.792	4	0.27		1.14	10	0.98	28
29	8.0	0.968	9 S	0.75		0.787	2	0.14		1.12	8	0.77	29
30		1.29	72	8.02		0.781	2	0.13		1.09	6	0.57	30
31						0.829	19	1.36					31
TOTAL		34.741		67.25		27.549		89.60		29.780		148.46	TOTAL
MEAN		1.16		2.24		0.888		2.89		0.993		4.95	MEAN

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.07	4	0.37		0.659	5	0.28		0.500	3	0.13	1
2		1.05	3	0.27		0.651	4	0.22		0.502	3	0.13	2
3		1.03	4	0.36		0.642	4	0.22		0.504	2	0.09	3
4		1.00	5	0.43		0.643	6	0.33		0.501	3	0.13	4
5		0.983	5	0.42		0.678	8	0.47		0.492	4	0.17	5
6	14.0	0.986	7 S	0.60		0.657	5	0.28	13.0	0.489	7 S	0.30	6
7		0.977	7	0.59		0.653	5	0.28		0.490	7	0.30	7
8		0.945	4	0.33		0.638	4	0.22		0.499	5	0.22	8
9		0.923	5	0.40		0.623	3	0.16		0.493	4	0.17	9
10		0.922	5	0.40	14.0	0.608	2 S	0.11		0.482	3	0.12	10
11		0.887	4	0.31		0.604	3	0.16		0.482	3	0.12	11
12		0.872	4	0.30		0.601	7	0.36		0.482	3	0.12	12
13		0.854	3	0.22	12.5	0.593	10 S	0.51		0.485	2	0.08	13
14	14.0	0.962	19 S	1.58		0.583	5	0.25		0.472	6	0.24	14
15	12.0	1.07	13 S	1.20		0.582	5	0.25		0.478	5	0.21	15
16		0.930	6	0.48		0.610	5	0.26		0.479	2	0.08	16
17		0.839	5	0.36		0.630	5	0.27	11.0	0.472	2 S	0.08	17
18		0.804	6	0.42	12.0	0.601	3 S	0.16		0.469	4	0.16	18
19		0.786	5	0.34		0.583	4	0.20		0.460	3	0.12	19
20		0.767	4	0.27		0.572	4	0.20	11.0	0.463	5 S	0.20	20
21		0.762	5	0.33		0.561	5	0.24		0.463	5	0.20	21
22	11.0	0.767	6 S	0.40		0.556	4	0.19		0.461	3	0.12	22
23		0.739	4	0.26		0.544	4	0.19	10.0	0.510	6 S	0.26	23
24		0.714	5	0.31		0.547	4	0.19		0.503	5	0.22	24
25		0.698	3	0.18		0.539	3	0.14		0.570	14	0.69	25
26		0.680	4	0.24		0.537	3	0.14		0.494	3	0.13	26
27		0.774	17	1.14		0.537	2	0.09		0.477	3	0.12	27
28		0.801	13	0.90		0.525	3	0.14		0.465	4	0.16	28
29	14.0	0.702	4 S	0.24		0.516	2	0.09		0.462	3	0.12	29
30		0.688	4	0.24		0.513	3	0.13		0.489	6	0.25	30
31		0.666	3	0.17		0.508	4	0.18					31
TOTAL		26.648		14.06		18.294		6.91		14.588		5.44	TOTAL
MEAN		0.859		0.45		0.590		0.22		0.486		0.18	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.477	2	0.08	7.0	0.885	10 S	0.76		1.28	13	1.44	1
2		0.533	7	0.32		0.883	17	1.30		1.45	33	4.13	2
3		0.653	18	1.02		0.861	14	1.04	7.0	2.42	79 S	16.5	3
4		0.503	3	0.13		0.834	11	0.79		1.91	50	8.25	4
5		0.473	4	0.16	5.0	0.803	9 S	0.62		1.46	24	3.03	5
6		0.462	3	0.12		0.854	11	0.81	6.0	4.65	171 S	68.7	6
7	9.0	0.577	16 S	0.80		2.06	81	14.4		2.02	61	10.6	7
8		0.695	26	1.56		1.30	26	2.92		1.81	51	7.98	8
9		0.702	21	1.27		0.974	16	1.35		1.78	44	6.77	9
10	9.0	0.670	14 S	0.81		0.908	12	0.94		1.76	40	6.08	10
11	9.0	0.559	7 S	0.34		0.885	9	0.69	6.0	1.89	34 S	5.55	11
12		0.522	5	0.23	5.0	0.898	19 S	1.47		1.72	23	3.42	12
13		0.506	4	0.17		0.873	8	0.60		1.60	18	2.49	13
14		0.498	3	0.13		0.848	7	0.51		1.52	15	1.97	14
15	7.0	0.495	3 S	0.13		0.835	6	0.43		1.48	28	3.58	15
16		0.488	4	0.17	6.0	0.831	4 S	0.29	3.0	4.52	187 S	73.0	16
17		0.494	3	0.13		1.02	25	2.20		2.27	83	16.3	17
18		0.488	3	0.13	7.0	2.12	117 S	21.4		1.86	41	6.59	18
19	8.0	0.608	42 S	2.21	5.0	2.02	127 S	22.2		1.87	37	5.98	19
20	8.0	0.952	85 S	6.99		1.53	78	10.3		1.84	18	2.86	20
21		0.587	8	0.41		4.76	139	57.2	4.0	1.78	9	1.38	21
22		0.559	12	0.58	5.0	2.01	63 S	10.9		1.73	9 S	1.35	22
23		0.545	8	0.38		1.71	37	5.47		1.69	10	1.46	23
24		1.17	111	11.2		1.64	29	4.11		1.64	8	1.13	24
25		0.703	12	0.73		1.57	25	3.39		1.58	6	0.82	25
26		0.590	6	0.31		1.52	22	2.89		1.50	5	0.65	26
27	8.0	0.764	48 S	3.17		1.49	16	2.06		1.41	6	0.73	27
28	10.0	3.86	695 S	232		1.47	17	2.16		1.37	4	0.47	28
29	7.0	1.76	120 S	18.2	5.0	1.43	16 S	1.98		1.35	3	0.35	29
30		0.961	10	0.83		1.36	14	1.65		1.32	4	0.46	30
31		0.904	7	0.55						1.23	5	0.53	31
TOTAL		23.758		285.26		41.182		176.83		57.71		264.55	TOTAL
MEAN		0.766		9.20		1.37		5.89		1.86		8.53	MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	55	
MAXIMUM DAILY	695	ON OCT 28
MINIMUM DAILY	1	ON JAN 02

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	5.22	
MAXIMUM DAILY	404	ON FEB 12
MINIMUM DAILY	0.06	ON JAN 03

TOTAL SUSPENDED SEDIMENT LOAD 1 905.80 t

TYPE OF GAUGE - RECORDING

LOCATION - LAT 46 23 35 N

LONG 63 39 35 W

DRAINAGE AREA 45.4 km^2

NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN

DOGHIDE RIVER NEAR RUNCIMAN - STATION NO. 05KB011

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0 B	0	0	10
11										0 B	0	0	11
12										0 B	0	0	12
13										0 B	0	0	13
14										0 B	0	0	14
15										0.100 B	5 E	0.04	15
16										0.250 B	20 E	0.43	16
17										0.400 B	60 E	2.07	17
18									0.5	0.727 B	91 S	5.72	18
19										0.861 B	90	6.70	19
20										0.655 B	88	4.98	20
21										0.572 B	79	3.90	21
22										0.403 B	67	2.33	22
23										0.248 B	54	1.16	23
24										0.205 B	39	0.69	24
25										0.230 B	34	0.68	25
26										0.270 B	33	0.77	26
27										0.372 B	33	1.06	27
28										0.681 B	35	2.06	28
29										0.947 B	37	3.03	29
30									0.5	1.01 B	41 S	3.58	30
31										1.34 B	53	6.14	31
TOTAL										9.271		45.34	TOTAL
MEAN										0.299		1.46	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.76 B	67	10.2		0.032				0.002			1
2		1.68 B	62	9.00		0.024				0.001			2
3		1.32 B	51	5.82		0.021				0			3
4		0.918 B	40	3.17		0.018				0			4
5		0.786 B	32	2.17		0.016				0			5
6		0.607 B	28	1.47		0.011				0			6
7		0.514 B	25	1.11		0.008				0			7
8		0.557 B	22	1.06		0.007				0.001			8
9		0.532 B	20	0.92		0.007				0.003			9
10	1.0	0.333 B	18 S	0.52		0.010				0			10
11		0.281	16	0.39		0.009				0			11
12		0.263	16	0.36		0.009				0			12
13		0.277	15	0.36		0.007				0			13
14		0.248	15	0.32		0.006				0			14
15	1.0	0.240	14 S	0.29		0.006				0			15
16		0.244	14	0.30		0.006				0			16
17		0.279	14	0.34		0.006				0			17
18		0.255	14	0.31		0.004				0			18
19		0.194	14	0.23		0.004				0			19
20		0.151	14	0.18		0.004				0			20
21	3.0	0.112	14 S	0.14		0.003				0.004			21
22		0.065	14	0.08		0.004				0.006			22
23		0.054	14	0.07		0.004				0.002			23
24		0.043	14	0.05		0.003				0.001			24
25		0.040	14	0.05		0.004				0.002			25
26		0.048	14	0.06		0.004				0			26
27		0.046	14	0.06		0.004				0			27
28		0.041	14	0.05		0.003				0			28
29		0.047	14	0.06		0.003				0			29
30		0.041	14	0.05		0.004				0			30
31						0.003							31
TOTAL		11.976		39.19		0.254				0.022			TOTAL
MEAN		0.399		1.31		0.008				0.001			MEAN

DOGHIDE RIVER NEAR RUNCIMAN - STATION NO. 05KB011

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0				0.003				0			1
2		0				0.003				0			2
3		0				0.003				0			3
4		0				0.002				0			4
5		0				0.002				0			5
6		0				0.001				0			6
7		0				0				0			7
8		0				0				0			8
9		0				0				0			9
10		0				0				0			10
11		0				0				0			11
12		0				0				0			12
13		0				0				0			13
14		0				0				0			14
15		0.025				0				0			15
16		0.046				0				0			16
17		0.030				0				0			17
18		0.025				0				0			18
19		0.024				0				0			19
20		0.023				0				0			20
21		0.022				0				0			21
22		0.020				0				0			22
23		0.018				0				0			23
24		0.016				0				0			24
25		0.014				0				0			25
26		0.011				0				0			26
27		0.009				0				0			27
28		0.007				0				0			28
29		0.005				0				0			29
30		0.004				0				0			30
31		0.003				0				0			31
TOTAL		0.302				0.014				0			TOTAL
MEAN		0.010				0.000				0			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0											1
2		0											2
3		0											3
4		0											4
5		0											5
6		0											6
7		0											7
8		0											8
9		0											9
10		0											10
11		0											11
12		0											12
13		0											13
14		0											14
15		0											15
16		0											16
17		0											17
18		0											18
19		0											19
20		0											20
21		0											21
22		0											22
23		0.015 B											23
24		0.073 B											24
25		0.069 B											25
26		0.065 B											26
27		0.059 B											27
28		0.057 B											28
29		0.059 B											29
30		0.064 B											30
31		0.064 B											31
TOTAL		0.525											TOTAL
MEAN		0.017											MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 91 ON MAR 18
MINIMUM DAILY 0 ON MAR 01

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 10.2 ON APR 01
MINIMUM DAILY 0 ON MAR 01

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 58 15 N
LONG 104 04 55 W
DRAINAGE AREA 440 km^2
NATURAL FLOW

SASKATCHEWAN

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		136 B				117 B				109 B			1
2		131 B				119 B				99.6 B			2
3		124 B				120 B				95.2 B			3
4		115 B				122 B				95.7 B			4
5	0.5	111 B	11 S	105		124 B				99.5 B			5
6		109 B				124 B				103 B			6
7		106 B				123 B				104 B			7
8		106 B				126 B				104 B			8
9		110 B				121 B				102 B			9
10		117 B				110 B				101 B			10
11		125 B				104 B				97.0 B			11
12		126 B				104 B				93.6 B			12
13		123 B				109 B				93.7 B			13
14		123 B				114 B				93.1 B			14
15		125 B				113 B				91.0 B			15
16		129 B				109 B				90.0 B			16
17		130 B				101 B				89.3 B			17
18		128 B				92.6 B				88.6 B			18
19		124 B				86.4 B				88.4 B			19
20		123 B				88.1 B				90.1 B			20
21		123 B				96.8 B				92.9 B			21
22		125 B				99.1 B				95.7 B			22
23		126 B				97.9 B				98.2 B			23
24		128 B				97.4 B				103 B			24
25		129 B				100 B				113 B			25
26		129 B				109 B				129 B			26
27		125 B				117 B				162 B			27
28		121 B				116 B				217 B			28
29		118 B								245 B			29
30		116 B								237 B			30
31		115 B								213 B			31
TOTAL		3 776				3 060.3				3 633.6			TOTAL
MEAN		122				109				117			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		198 B				253	129	2 820	17.5	646	429 S	23 900	1
2		194 B				281	157	3 810		612	467	24 700	2
3		200 B				264	148	3 380		589	493	25 100	3
4		213 B				254	127	2 790	19.5	583	508 S	25 600	4
5		227 B				246	106	2 250		563	487	23 700	5
6		276 B				236	87	1 770		513	445	19 700	6
7		270 B			14.5	234	68 S	1 370		462	400	16 000	7
8		255 B				220	58	1 100		434	352	13 200	8
9		391 B				212	51	934	18.0	449	309 S	12 000	9
10		417 B				202	33	576		474	284	11 600	10
11		396 B				183	26	411	18.5	477	263 S	10 800	11
12		331 B				212	54	989		466	247	9 940	12
13		336 B				247	105 S	2 240		434	230	8 620	13
14		322 B				262	159	3 600		401	213	7 380	14
15		295 B				288	233	5 800		373	192	6 190	15
16		475 B			13.0	402	398 S	13 800		347	172	5 160	16
17		296 B				460	463	18 400		334	159	4 590	17
18		338 B				462	415	16 600		336	142	4 120	18
19		360 B			16.0	457	347 S	13 700	18.0	333	121 S	3 480	19
20		346 B				443	301	11 500		325	110	3 090	20
21		296 B				437	272	10 300		313	102	2 760	21
22		280 E				428	255	9 430	18.0	311	88 S	2 360	22
23		270 A				432	254	9 480		318	81	2 230	23
24		278				490	298	12 600		314	82	2 220	24
25		275				513	305	13 500	18.5	317	82 S	2 250	25
26		268			18.0	481	255 S	10 600		300	74	1 920	26
27		260			19.0	472	227 S	9 260		273	66	1 560	27
28	10.0	253	79 S	1 730		495	244	10 400		254	59	1 290	28
29		249	75	1 610		525	287	13 000		239	51	1 050	29
30		242	89	1 860		570	334	16 400	21.0	220	47 S	893	30
31						638	376	20 700					31
TOTAL		8 607				11 299		243 510		12 010		277 403	TOTAL
MEAN		287				364		7 860		400		9 250	MEAN

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		205	44	779		1 080	486	45 300		318	71	1 950	1
2		200	41	708		1 150	819	81 400		310	69	1 850	2
3	23.0	201	42 S	729		981	777	65 900	14.5	305	66 S	1 740	3
4		196	41	698	20.5	819	640 S	45 300	14.5	313	64 S	1 730	4
5		188	40	650	20.5	739	587 S	37 500		305	62	1 630	5
6	22.5	177	40 S	612	21.5	801	470 S	32 500		295	60	1 530	6
7		172	41	609	22.5	1 000	451 S	39 000		289	59	1 470	7
8		181	51	798		1 060	522	47 800	18.5	283	58 S	1 420	8
9		191	61	1 010		968	510	42 700		281	59	1 430	9
10	20.0	183	57 S	901	22.0	864	436 S	32 500		283	61	1 490	10
11		170	48	705		797	371	25 500		287	64	1 590	11
12		162	41	574		737	338	21 500		288	68	1 690	12
13		175	39	590		684	331	19 600	11.5	280	72 S	1 740	13
14		192	42	697	20.5	626	324 S	17 500		281	73	1 770	14
15		195	44	741		563	304	14 800		277	72	1 720	15
16	20.0	202	45 S	785		503	277	12 000	15.5	268	69 S	1 600	16
17	21.0	199	45 S	774		472	240	9 790		261	66	1 490	17
18		206	49	872	22.5	442	182 S	6 950		248	65	1 390	18
19		207	51	912		413	155	5 530		238	63	1 300	19
20	21.0	196	48 S	813	23.0	405	138 S	4 830		228	62	1 220	20
21		183	42	664		398	126	4 330		223	60	1 160	21
22		178	57	877		382	115	3 800		219	57	1 080	22
23	23.0	549	469 S	22 200		378	101	3 300	12.0	207	53 S	948	23
24	21.0	871	601 S	45 200		379	91	2 980		197	53	902	24
25	20.0	806	875 S	60 900	22.5	367	92 S	2 920		211	56	1 020	25
26	19.0	699	1 130 S	68 200		347	85	2 550		222	58	1 110	26
27	19.0	629	874 S	47 500		344	86	2 560		216	54	1 010	27
28	21.0	575	780 S	38 800		349	87	2 620		215	51	947	28
29	21.5	545	555 S	26 100	22.0	335	81 S	2 340	7.5	214 A	48 S	888	29
30	19.5	577	487 S	24 300		318	76	2 090		219 E	48	908	30
31		773	259	17 300		315	72	1 960					31
TOTAL		10 183		366 994		19 016		639 350		7 781		41 723	TOTAL
MEAN		328		11 800		613		20 600		259		1 390	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		225 E	49	953		180 B				171 B			1
2		222 E	48	921		178 B				163 B			2
3		210 E	48	871		172				147 B			3
4	9.0	195 E	47 S	792		175				131 B			4
5		178 E	45	692		178				170 B			5
6		184 E	45	715		179				175 B			6
7		189 A	45	735		180				171 B			7
8		176 A	43	654		178				158 B			8
9		179	44	680		178				145 B			9
10		172	38	565		173				137 B			10
11	2.0	167	32 S	462		163				142 B			11
12		167	35	505		164				153 B			12
13		170	37	543		167				152 B			13
14		163	35	493		174				148 B			14
15	2.0	157	31 S	421		178				146 B			15
16		170	33	485		180				145 B			16
17		190	42	689		183 B				143 B			17
18		187	43	695		194 B				140 B			18
19	5.0	182	42 S	660		190 B				138 B			19
20		188	45	731		193 B				137 B			20
21		213	54	994		183 B				134 B			21
22		215	54	1 000		181 B				137 B			22
23		196	46	779		177 B				147 B			23
24		170 B	39	573		175 B				151 B			24
25		168 B	39	566		148 B				149 B			25
26		178 B	41	631		168 B				145 B			26
27		175 B	39	590		178 B				144 B			27
28		169 B	35	511		177 B				147 B			28
29		166 B	34	488		183 B				160 B			29
30		165 B	33	470		186 B				165 B			30
31		171 B	35	517						159 B			31
TOTAL		5 657		20 381		5 313				4 650			TOTAL
MEAN		182		657		177				150			MEAN

SUMMARY FOR THE YEAR 1981

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 130 ON JUL 26

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 81 400 ON AUG 02

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 12 10 N
LONG 105 46 06 W
DRAINAGE AREA 131 000 km²
REGULATED FLOW SINCE 1962

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1981

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 04	16:40	583 H	19.5	402 K	25	36	51	63	71	80	87	95	98	99		BNW
JUL 30	13:10	577 H	19.5	625 K	35	46	65	76	81	84	92	97	99	100		BNW
AUG 04	14:10	819 H	20.5	655 K	30	41	56	67	72	78	90	97	99	100		BNW
AUG 29	16:45	335 H	22.0	461 K	29	38	56	71	78	81	91	99	100			BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

SASKATCHEWAN

QU'APPELLE RIVER NEAR LUMSDEN - STATION NO. 05JF001

SUSPENDED SEDIMENT FOR 1981

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.48 B				1.30 B				2.11 B			1
2		1.61 B				1.30 B				1.90 B			2
3		1.48 B				1.32 B				1.83 B			3
4		1.34 B				1.29 B				1.89 B			4
5		1.24 B				1.27 B				1.87 B			5
6		1.21 B				1.30 B				1.83 B			6
7		1.13 B				1.29 B				1.81 B			7
8		1.10 B				1.15 B				1.78 B			8
9		1.09 B				1.18 B				1.72 B			9
10		1.17 B				1.17 B				1.66 B			10
11		1.27 B				1.11 B				1.67 B			11
12		1.31 B				1.09 B				1.69 B			12
13		1.28 B				1.11 B				1.10 B			13
14		1.20 B				1.10 B				0.880 B			14
15		1.19 B				1.12 B				0.885 B			15
16		1.24 B				1.15 B				0.884 B			16
17		1.28 B				1.31 B				0.884 B			17
18		1.23 B				1.36 B				0.883 B			18
19		1.27 B				1.40 B				0.887 B			19
20		1.33 B				1.48 B				0.854 B			20
21		1.29 B				1.62 B				0.809 B			21
22		1.29 B				2.29 B				0.777 B			22
23		1.34 B				2.72 B				0.809 B			23
24		1.36 B				2.60 B				0.873 B			24
25		1.30 B				2.05 B				0.920 B			25
26		1.28 B				2.08 B				0.947 B			26
27		1.21 B				2.09 B				1.01 B			27
28		1.09 B				2.12 B				1.05 B			28
29		1.17 B								0.979 B			29
30		1.27 B								1.13 B			30
31		1.26 B								1.14 B			31
TOTAL		39.31				42.37				39.461			TOTAL
MEAN		1.27				1.51				1.27			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.01 B	26	2.27		8.25	77	54.9		7.02	82	49.7	1
2		5.46 B	87	41.0		7.88	76	51.7		6.90	84	50.1	2
3	1.0	5.67 B	55 S	26.9		9.33	88	70.9		6.93	83	49.7	3
4		3.53 B	50	15.2		9.75	80	67.4		6.73	70	40.7	4
5		2.58 B	49	10.9		9.38	71	57.5		5.80	59	29.6	5
6		2.47 B	46	9.82		8.95	66	51.0		6.11	70	37.0	6
7		2.27 B	43	8.43		7.96	70	48.1		6.55	80	45.3	7
8	0.5	2.20	38 S	7.22		8.01	68	47.1		7.08	95	58.1	8
9		2.26	40	7.81		8.08	67	46.8		7.13	88	54.2	9
10		2.23	41	7.90		8.06	67	46.7		7.01	82	49.7	10
11		2.08	39	7.01		7.62	65	42.8	15.0	7.28	88 S	55.4	11
12		2.40	40	8.29		7.93	72	49.3		7.16	84	52.0	12
13		2.15	40	7.43		7.88	73	49.7		7.18	84	52.1	13
14		2.42	36	7.53	12.5	7.97	74 S	51.0		8.02	94	65.1	14
15	3.5	3.95	40 S	13.7		8.00	76	52.5		10.5	130	118	15
16		4.57	47	18.6		7.66	71	47.0		10.9	109	103	16
17		4.39	44	16.7		7.08	75	45.9		10.0	84	72.6	17
18		4.36	41	15.4		7.40	82	52.4		10.2	92	81.1	18
19		3.89	40	13.4		7.51	83	53.9		10.1	92	80.3	19
20		3.40	39	11.5		7.20	80	49.8		9.07	73	57.2	20
21		3.00	36	9.33		7.49	86	55.7		8.80	65	49.4	21
22		2.96	35	8.95		7.70	86	57.2		9.00	60	46.7	22
23	10.0	3.80	56 S	18.4		7.73	84	56.1		9.49	64	52.5	23
24	11.5	7.02	122 S	74.0		7.79	85	57.2		9.67	60	50.1	24
25		8.03	144	99.9		7.69	84	55.8	19.5	10.9	76 S	71.6	25
26		10.2	142	125		7.51	85	55.2		10.9	72	67.8	26
27		10.4	135	121		7.26	84	52.7		10.1	69	60.2	27
28	10.0	10.2	132 S	116	17.5	7.41	86 S	55.1		10.3	73	65.0	28
29		9.88	121	103		7.98	98	67.6		10.6	73	66.9	29
30		8.45	87	63.5		8.18	95	67.1		10.3	68	60.5	30
31						7.41	84	53.8					31
TOTAL		137.23		996.09		246.05		1 669.9		257.73		1 791.6	TOTAL
MEAN		4.57		33.2		7.94		53.9		8.59		59.7	MEAN

QU'APPELLE RIVER NEAR LUMSDEN - STATION NO. 05JF001

SUSPENDED SEDIMENT FOR 1981

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		9.88				10.7				6.40			1
2		9.89				10.5				5.07			2
3		10.1				9.75				3.95			3
4		9.67				9.53				3.46			4
5		9.40				9.09				3.20			5
6		9.26				8.94				3.24			6
7		8.99				8.66				3.17			7
8		9.14				8.55				3.26			8
9		9.68				8.37				3.29			9
10		9.02				8.17				3.29			10
11		8.25				8.04				3.30			11
12		8.10			21.0	7.93	120 S	82.2		2.13			12
13		8.39				7.71				1.70			13
14		8.67				7.51			16.0	1.97	31 S	5.28	14
15	20.0	10.4	174 S	156		7.36				1.85			15
16		12.1				7.01				1.67			16
17		11.1				7.00				1.59			17
18		10.3				7.61				1.42			18
19		10.0				7.58				1.66			19
20		12.3				6.64				1.72			20
21		12.8				5.87				1.47			21
22		11.3				5.58				1.36			22
23		11.1				5.80				1.25			23
24		11.2				5.87				1.25			24
25		10.9				5.75				1.55			25
26		10.5			21.0	5.64	86 S	41.9		2.19			26
27		10.0				5.72				3.32			27
28		9.56				5.60				4.60			28
29	21.0	9.34	122 S	98.5		5.27				2.80			29
30		9.63				5.53			8.0	2.60	37 S	8.31	30
31		10.1				5.95 A							31
TOTAL		311.03				229.23				79.73			TOTAL
MEAN		10.0				7.39				2.66			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.55				1.32 B				1.68 B			1
2		2.24				1.27 B				1.63 B			2
3		2.20				1.24 B				1.64 B			3
4		2.17				1.20 B				1.62 B			4
5		2.23				1.74 B				1.61 B			5
6		2.25				1.82 B				1.60 B			6
7		1.99				1.69 B				1.59 B			7
8		1.86				1.45 B				1.58 B			8
9		2.09				1.30 B				1.57 B			9
10		2.01				1.50 B				1.56 B			10
11		2.47				1.55 B				1.54 B			11
12		2.52				1.60 B				1.52 B			12
13		2.77				1.68				1.50 B			13
14	4.5	6.12	130 S	68.7		1.62				1.49 B			14
15		3.84				1.55				1.47 B			15
16		2.58				1.52				1.44 B			16
17		2.73				1.51				1.42 B			17
18		2.70				1.45 B				1.40 B			18
19		2.52				1.30 B				1.38 B			19
20		2.34				1.40 B				1.33 B			20
21		2.11 B				1.44 B				1.26 B			21
22		1.89 B				1.42 B				1.23 B			22
23		1.99 B				1.41 B				1.21 B			23
24		2.10 B				1.37 B				1.19 B			24
25		2.15 B				1.32 B				1.20 B			25
26		2.05 B				1.31 B				1.20 B			26
27		2.03 B				1.42 B				1.21 B			27
28		2.16 B				1.48 B				1.21 B			28
29	0.1	1.76 B	23 S	3.50		1.46 B				1.22 B			29
30		1.46 B				1.65 B				1.22 B			30
31		1.40 B								1.22 B			31
TOTAL		73.28				43.99				43.94			TOTAL
MEAN		2.36				1.47				1.42			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - ,LAT 50 39 16 N
LONG 104 51 06 W
DRAINAGE AREA 18 200 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

STATION NUMBER INDEX

STA. NO.	NAME	PAGE
01AL004	NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN	169
01AP004	KENNEBECASIS RIVER AT APOHAQUI	167
01BU002	PETITCODIAC RIVER NEAR PETITCODIAC	171
01CB004	WILMOT RIVER NEAR WILMOT VALLEY	240
01CB005	NORTH BROOK NEAR WALL ROAD	238
01CB006	EMERALD BROOK NEAR EMERALD	236
01CE004	BRUDENELL RIVER AT BRUDENELL	234
01DC005	ANNAPOLIS RIVER AT WILMOT	185
01DG018	PEMBROKE RIVER AT GLENBERVIE	191
01DL001	KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD	187
01DP004	MIDDLE RIVER AT ROCKLIN	189
02EA010	NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE	224
02FD002	LUCKNOW RIVER AT LUCKNOW	221
02FF002	AUSABLE RIVER NEAR SPRINGBANK	193
02GA032	O.A.C. FARM GAUGE NO. 5 AT GUELPH	226
02GA035	EAST CANAGAGIGUE CREEK NEAR FLORADALE	208
02GA036	CANAGAGIGUE CREEK NEAR FLORADALE	202
02GC007	BIG CREEK NEAR WALSINGHAM	196
02GC026	BIG OTTER CREEK NEAR CALTON	199
02HB002	CREDIT RIVER AT ERINDALE	205
02HC025	HUMBER RIVER AT ELDER MILLS	219
02HD013	HARMONY CREEK AT OSHAWA	216
02HD014	FAREWELL CREEK AT OSHAWA	211
02LB005	SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS	232
02LB013	SOUTH NATION RIVER AT CASSELMAN	229
02LB015	SOUTH NATION RIVER AT LEMIEUX	231
02YD002	NORTHEAST BROOK NEAR RODDICKTON	175
02YJ001	HARRYS RIVER BELOW HIGHWAY BRIDGE	173
02ZM008	WATERFORD RIVER AT KILBRIDE	177
04KA002	HALFWAY CREEK AT MOOSONEE	214
05AA023	OLDMAN RIVER NEAR WALDRON'S CORNER	43
05AA024	OLDMAN RIVER NEAR BROCKET	37
05AD007	OLDMAN RIVER NEAR LETHBRIDGE	40
05AK001	SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41	60
05BF016	MARMOT CREEK (MAIN STEM)	23
05BF017	MIDDLE FORK CREEK NEAR SEEBE	25
05BF018	TWIN CREEK NEAR SEEBE	66
05BF019	CABIN CREEK NEAR SEEBE	9
05CC002	RED DEER RIVER AT RED DEER	52
05CE001	RED DEER RIVER AT DRUMHELLER	49
05CK004	RED DEER RIVER NEAR BINDLOSS	55
05DA009	NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT	35
05FE004	BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY	6
05GG001	NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT	244
05JF001	QU'APPELLE RIVER NEAR LUMSDEN	247
05KB011	DOGHIDE RIVER NEAR RUNCIMAN	242
05LJ001	SASKATCHEWAN RIVER AT THE PAS	149
05LJ005	OCHRE RIVER AT OCHRE RIVER	132
05LJ007	TURTLE RIVER NEAR LAURIER	156
05LJ010	VALLEY RIVER NEAR DAUPHIN	159
05LJ011	WILSON RIVER NEAR DAUPHIN	165
05LJ012	VERMILION RIVER NEAR DAUPHIN	162
05LJ025	MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE	130
05LJ047	EDWARDS CREEK DRAIN BELOW JACKFISH CREEK	125
05LJ048	MINK CREEK NEAR SIFTON	128
05MH005	ASSINIBOINE RIVER NEAR HOLLAND	120
05MJ001	ASSINIBOINE RIVER AT HEADINGLEY	117
05NF002	ANTLER RIVER NEAR MELITA	115
05NF016	SOURIS RIVER NEAR COULTER	154
05NG001	SOURIS RIVER AT WAWANESA	152
05OB007	PEMBINA RIVER NEAR WINDYGATES	137
05OC001	RED RIVER AT EMERSON	140
05OD001	ROSEAU RIVER NEAR DOMINION CITY	147
05OD004	ROSEAU RIVER AT GARDENTON	145
05OJ010	RED RIVER NEAR LOCKPORT	143
05TE001	BURNTWOOD RIVER ABOVE THREE POINT LAKE	123
05TG003	ODEI RIVER NEAR THOMPSON	135
07AD004	WHISKEYJACK CREEK NEAR HINTON	70
07AF003	WAMPUS CREEK NEAR HINTON	68
07AF004	DEERLICK CREEK NEAR HINTON	14
07AF005	EUNICE CREEK NEAR HINTON	19
07BH003	DRIFTPILE RIVER NEAR DRIFTPILE	16
07BJ001	SWAN RIVER NEAR KINUSO	63
07BK006	LESSER SLAVE RIVER AT HIGHWAY NO. 2	21
07CD001	CLEARWATER RIVER AT DRAPER	11
07DA001	ATHABASCA RIVER BELOW MCMURRAY	3
07DD001	ATHABASCA RIVER AT EMBARRAS AIRPORT	1
07FB002	MURRAY RIVER NEAR THE MOUTH	103
07FB003	SUKUNKA RIVER NEAR THE MOUTH	113
07FB004	DICKEBUSCH CREEK NEAR THE MOUTH	78
07FB005	QUALITY CREEK NEAR THE MOUTH	106
07FB006	MURRAY RIVER ABOVE WOLVERINE RIVER	101
07FB007	SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK	111
07HA001	PEACE RIVER AT PEACE RIVER	46
07NB001	SLAVE RIVER AT FITZGERALD	58
08CB001	STIKINE RIVER ABOVE GRAND CANYON	108
08HB048	CARNATION CREEK AT THE MOUTH	74
08KA004	FRASER RIVER AT HANSARD	83
08MC018	FRASER RIVER NEAR MARGUERITE	94
08MF035	FRASER RIVER NEAR AGASSIZ	90
08MH024	FRASER RIVER AT MISSION	86
08NE049	COLUMBIA RIVER AT BIRCHBANK	76
08NH016	DUCK CREEK NEAR WYNNDEL	81
08NH031	KOOTENAI RIVER NEAR COPELAND	97
08NH084	ARROW CREEK NEAR ERICKSON	72
08NH129	KOOTENAY RIVER AT NICKS ISLAND	99
10ED002	LIARD RIVER NEAR THE MOUTH	179
10LA003	MACKENZIE RIVER ABOVE ARCTIC RED RIVER	182
11AA001	NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY	33
11AA005	MILK RIVER AT MILK RIVER	30
11AA031	MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY	27

ALPHABETICAL INDEX

NAME	STA. NO.	PAGE
ANNAPOLIS RIVER AT WILMOT	01DC005	185
ANTLER RIVER NEAR MELITA	05NF002	115
ARROW CREEK NEAR ERICKSON	08NH084	72
ASSINIBOINE RIVER AT HEADINGLEY	05MJ001	117
ASSINIBOINE RIVER NEAR HOLLAND	05NH005	120
ATHABASCA RIVER AT EMBARRAS AIRPORT	07DD001	1
ATHABASCA RIVER BELOW MCMURRAY	07DA001	3
AUSABLE RIVER NEAR SPRINGBANK	02FF002	193
BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY	05FE004	6
BIG CREEK NEAR WALSINGHAM	02GC007	196
BIG OTTER CREEK NEAR CALTON	02GC026	199
BRUDENELL RIVER AT BRUDENELL	01CE004	234
BURNTWOOD RIVER ABOVE THREE POINT LAKE	05TE001	123
CABIN CREEK NEAR SEEBE	05BF019	9
CANAGAGIGUE CREEK NEAR FLORADALE	02GA036	202
CARNATION CREEK AT THE MOUTH	08HB048	74
CLEARWATER RIVER AT DRAPER	07CD001	11
COLUMBIA RIVER AT BIRCHBANK	08NE049	76
CREDIT RIVER AT ERINDALE	02HB002	205
DEERLICK CREEK NEAR HINTON	07AF004	14
DICKEBUSCH CREEK NEAR THE MOUTH	07FB004	78
DOGHIDE RIVER NEAR RUNCIMAN	05KB011	242
DRIFTPILE RIVER NEAR DRIFTPILE	07BH003	16
DUCK CREEK NEAR WYNNDEL	08NH016	81
EAST CANAGAGIGUE CREEK NEAR FLORADALE	02GA035	208
EDWARDS CREEK DRAIN BELOW JACKFISH CREEK	05LJ047	125
EMERALD BROOK NEAR EMERALD	01CB006	236
EUNICE CREEK NEAR HINTON	07AF005	19
FAREWELL CREEK AT OSHAWA	02HD014	211
FRASER RIVER AT HANSARD	08KA004	83
FRASER RIVER AT MISSION	08MH024	86
FRASER RIVER NEAR AGASSIZ	08MF035	90
FRASER RIVER NEAR MARGUERITE	08MC018	94
HALFWAY CREEK AT MOOSONEE	04KA002	214
HARMONY CREEK AT OSHAWA	02HD013	216
HARRYS RIVER BELOW HIGHWAY BRIDGE	02YJ001	173
HUMBER RIVER AT ELDER MILLS	02HC025	219
KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD	01DL001	187
KENNEBECASIS RIVER AT APOHAQUI	01AP004	167
KOOTENAI RIVER NEAR COPELAND	08NH031	97
KOOTENAY RIVER AT NICKS ISLAND	08NH129	99
LESSER SLAVE RIVER AT HIGHWAY NO. 2	07BK006	21
LIARD RIVER NEAR THE MOUTH	10ED002	179
LUCKNOW RIVER AT LUCKNOW	02FD002	221
MACKENZIE RIVER ABOVE ARCTIC RED RIVER	10LA003	182
MARMOT CREEK (MAIN STEM)	05BF016	23
MIDDLE FORK CREEK NEAR SEEBE	05BF017	25
MIDDLE RIVER AT ROCKLIN	01DP004	189
MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY	11AA031	27
MILK RIVER AT MILK RIVER	11AA005	30
MINK CREEK NEAR SIFTON	05LJ048	128
MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE	05LJ025	130
MURRAY RIVER ABOVE WOLVERINE RIVER	07FB006	101
MURRAY RIVER NEAR THE MOUTH	07FB002	103
NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN	01AL004	169
NORTH BROOK NEAR WALL ROAD	01CB005	238
NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE	02EA010	224
NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY	11AA001	33
NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT	05GG001	244
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT	05DA009	35
NORTHEAST BROOK NEAR RODDICKTON	02YD002	175
O.A.C. FARM GAUGE NO. 5 AT GUELPH	02GA032	226
OCHRE RIVER AT OCHRE RIVER	05LJ005	132
ODEI RIVER NEAR THOMPSON	05TG003	135
OLDMAN RIVER NEAR BROCKET	05AA024	37
OLDMAN RIVER NEAR LETHBRIDGE	05AD007	40
OLDMAN RIVER NEAR WALDROM'S CORNER	05AA023	43
PEACE RIVER AT PEACE RIVER	07HA001	46
PEMBINA RIVER NEAR WINDYGATES	05OB007	137
PENBROKE RIVER AT GLENBERVIE	01DG018	191
PETITCODIAC RIVER NEAR PETITCODIAC	01BU002	171
QU'APPELLE RIVER NEAR LUMSDEN	05JF001	247
QUALITY CREEK NEAR THE MOUTH	07FB005	106
RED DEER RIVER AT DRUMHELLER	05CE001	49
RED DEER RIVER AT RED DEER	05CC002	52
RED DEER RIVER NEAR BINDLOSS	05CK004	55
RED RIVER AT EMERSON	05OC001	140
RED RIVER NEAR LOCKPORT	05OJ010	143
ROSEAU RIVER AT GARDENTON	05OD004	145
ROSEAU RIVER NEAR DOMINION CITY	05OD001	147
SASKATCHEWAN RIVER AT THE PAS	05KJ001	149
SLAVE RIVER AT FITZGERALD	07NB001	58
SOURIS RIVER AT WAWANESA	05NG001	152
SOURIS RIVER NEAR COULTER	05NF016	154
SOUTH NATION RIVER AT CASSELMAN	02LB013	229
SOUTH NATION RIVER AT LEMIEUX	02LB015	231
SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS	02LB005	232
SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41	05AK001	60
STIKINE RIVER ABOVE GRAND CANYON	08CB001	108
SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK	07FB007	111
SUKUNKA RIVER NEAR THE MOUTH	07FB003	113
SWAN RIVER NEAR KINUSO	07BJ001	63
TURTLE RIVER NEAR LAURIER	05LJ007	156
TWIN CREEK NEAR SEEBE	05BF018	66
VALLEY RIVER NEAR DAUPHIN	05LJ010	159
VERMILION RIVER NEAR DAUPHIN	05LJ012	162
WAMPUS CREEK NEAR HINTON	07AF003	68
WATERFORD RIVER AT KILBRIDE	02EM008	177
WHISKEYJACK CREEK NEAR HINTON	07AD004	70
WILMOT RIVER NEAR WILMOT VALLEY	01CB004	240
WILSON RIVER NEAR DAUPHIN	05LJ011	165